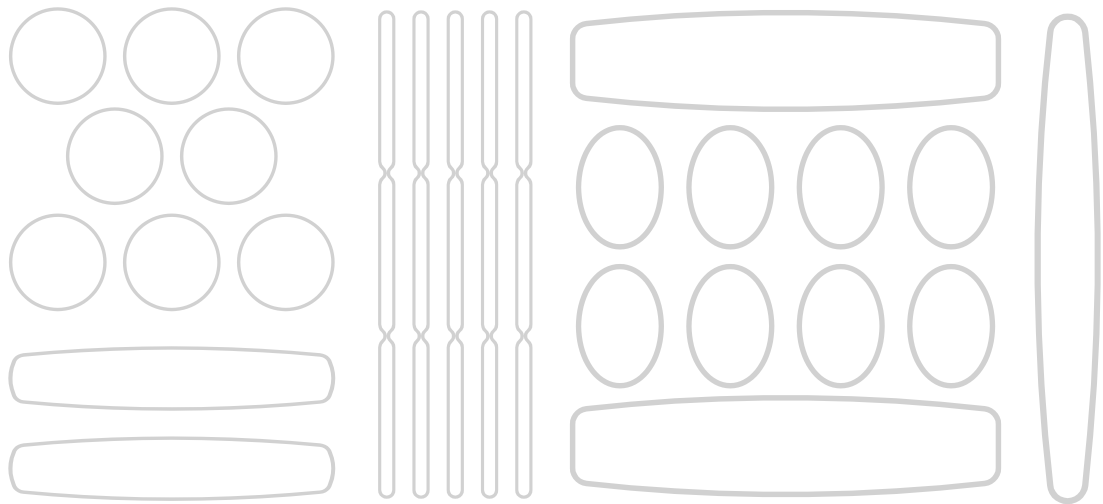




TUBE DIMENSION LIST

ALUMINUM AND BRASS TUBES

05/2023





WELCOME TO ARUP!

ARUP GmbH produces and supplies high-frequency seam-welded brass and aluminum tubing products to users of welded tubing and specializing in tubing for heat exchanger manufacturers around the world. We specialize in serving the automotive, industrial, on- and off-highway equipment, power & energy, oil & gas, and HVAC markets.

From the first blueprints to prototypes to production, we work with you side by side to ensure the success of your end-product. We can deliver more than

300 standard pre-tooled profiles which can provide huge start-up cost savings. If an existing profile is not what you need, our highly-experienced engineers can create a custom tooling set that will help to give you the best solution.

If you're ready to talk about your next project, get in touch:

sales@thermasystubing.com

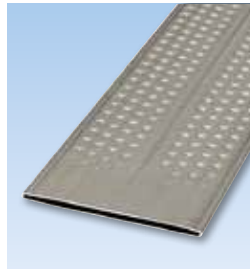
www.arup.de



OUR PRODUCTS

ALUMINUM RADIATOR TUBES

- Profiles from 12 mm to 52 mm in tube height
- Multiple-chambered, dimpled, and end-free capabilities
- Metal strip gauges as thin as 0.25 mm
- A wide array of aluminum alloys available



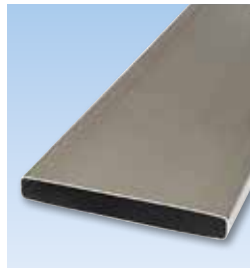
BRASS RADIATOR TUBES

- Profiles from 9 mm to 22 mm in tube height
- Metal strip gauges as thin as 0.1524 mm
- Available uncoated or coated with both leaded and lead-free solder
- A wide array of brass alloys available, including the industry standard 85/15, 70/30, 65/35, and cupro-braze, with corrosive resistance inhibitors



ALUMINUM CHARGE AIR COOLER TUBES

- Profiles from 25 mm to 94 mm in tube height
- Metal strip gauges as thin as 0.30 mm



ROUND, BOX AND SQUARE TUBES

- Available in a variety of sizes for HVAC, industrial, condenser applications and battery cooling
- A wide array of Aluminum, Copper & Brass alloys available
- High-strength materials available for high-pressure applications



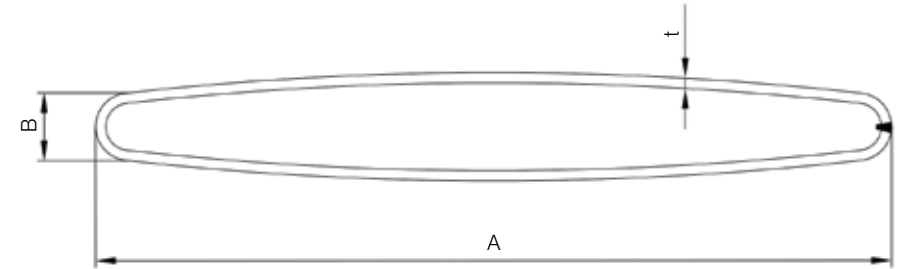
CONTENTS

Flat -Oval Aluminum Radiator Tubes	6
Rectangular Aluminum Air /Oil Tubes – Half-Round	9
Flat-Oval Brass Tubes	10
Multi-Chambered Flat-Oval Aluminum Tubes	11
Round Aluminum Oil/Manifold Tubes	12
Oval Aluminum Tubes (Special Application)	12
Aluminum Box Section Tubes	12
Rectangular Aluminum Air /Oil Tubes – Flat	13
Flat-Oval Aluminum Air /Oil Tubes	14



FLAT-OVAL ALUMINUM RADIATOR TUBES

- Profiles from 12 mm to 52 mm in tube height
- Multiple-chambered, dimpled, and end-free capabilities
- Metal strip gauges as thin as 0.25 mm
- A wide array of aluminum alloys available



A	B	t	Dimple	End free
12	1.72	0.3		
12	1.93	0.32		
13.4	2.4	0.4	3/2	x
13.6	2.5	0.35		
14	1.6	0.25	2/1	x
14	2	0.3		
14	2.97	0.26		
14.55	2	0.32		
16	1.4	0.3		
16	1.7	0.26		
16	1.8	0.32		
16	2	0.26		
16.17	1.8	0.3		
16.4	1.72	0.3		
18	1.6	0.5		
18	2	0.26 0.3 0.32		
18	2.05	0.4		
18.95	2	0.36		
19	2	0.32 0.38		
19	2.5	0.28 0.32		
19	2.97	0.26		
20	2	0.32 0.4		

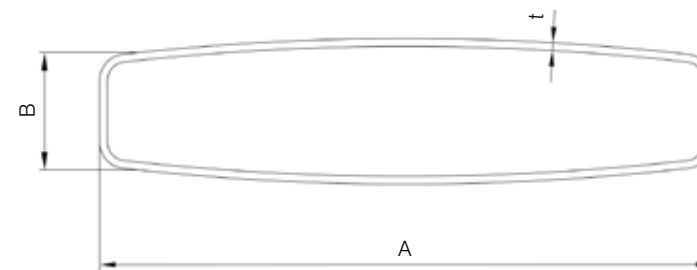
A	B	t	Dimple	End free
21	1.4	0.32		
22	1.8	0.32		
22	2	0.3 0.32		
22	2.05	0.32 0.4		
22.9	1.9	0.28 0.32		
23.45	2	0.26 0.3 0.32 0.4		
23.5	1.9	0.35		
23.52	2	0.3		
24	2.03	0.32		
24	2.2	0.38	5/5	
24	2.2	0.35 0.38		
25.4	1.72	0.3	6/5	
25.4	1.8	0.3		
25.69	1.99	0.32	6/5	
26	1.3	0.3		
26	1.4	0.3		
26	1.5	0.26 0.3		
26	1.6	0.26	6/5	x
26	1.7	0.26 0.3		
26	1.7	0.26 0.3	6/5	x
26	1.8	0.3 0.32 0.4 0.5		
26	1.8	0.3 0.4	6/5	x



FLAT-OVAL ALUMINUM RADIATOR TUBES

A	B	t	Dimple	End free
26	2	0.33 0.38 0.4 0.5		
26	2	0.26 0.3 0.4	6/5	x
26	2.05	0.32 0.4		
28	1.8	0.3		
30	2.05	0.4		
30	2.5	0.4		
31.57	2.5	0.33	6/5	
31,5	1.93	0.4	6/5	
31.75	1.93	0.33	6/5	
32	1.6	0.3		
32	1.6	0.3 0.32	6/5	x
32	1.8	0.3		
32	1.8	0.3	6/5	x
32	1.85	0.3 0.32		
32	1.98	0.33 0.4 0.51		
32	1.98	0.4		
32	2	0.3 0.32		
32	2	0.38 0.4		
32	2.05	0.3 0.32 0.35		
32.14	1.76	0.33	6/5	
34	1.8	0.32 0.33		
34	2.05	0.3		
38.2	1.98	0.4		
40	2	0.32		
40	2.05	0.36		
40.05	2.42	0.4		
42	2	0.35		
42	2.02	0.35		

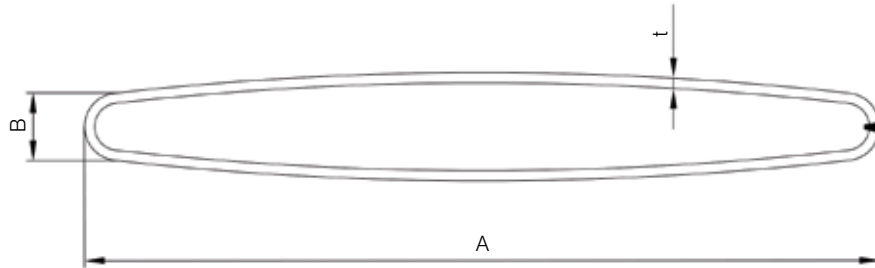
RECTANGULAR ALUMINUM AIR/OIL TUBES – HALF-ROUND



A	B	t
25	8	0.4
40	8	0.4 0.5
41.3	10.97	0.63
50	8	0.4 0.5
51.9	9.91	0.63
52	8	0.4 0.5
56.1	10.97	0.5 0.63
62	8	0.4 0.5
69.88	9.91	0.63
70.1	10.91	0.63
74	8	0.4 0.5

FLAT-OVAL BRASS TUBES

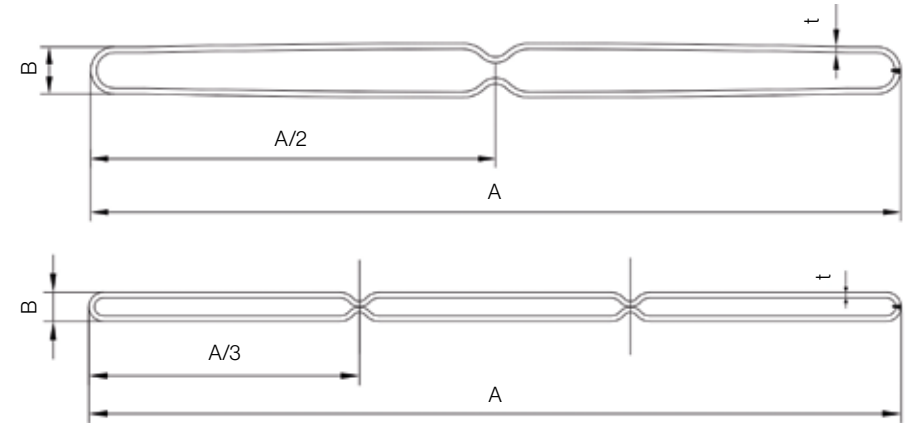
Optional with outside Sn25Pb75 and Sn97Cu3 lead-free solder coating. All brass tube profiles offered in material thickness range 0,152 – 0,228 mm.
Dimples on request!



A	B	t
12.57	2.86	0.1524
12.65	1.30	0.1524
12.65	1.85	0.1524
13.14	2.97	0.1524 0.2286
13.40	2.39	0.1778 0.2286
13.42	2.39	0.1524
13.50	2.45	0.1650 0.1778 0.300
15.88	1.93	0.1524
15.90	2.00	0.1524 0.203
16.05	2.17	0.1524
18.67	4.01	0.1778
18.70	4.01	0.1778
18.83	2.31	0.1778
19.00	1.20	0.165

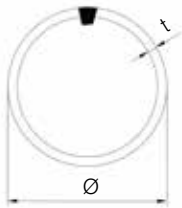
MULTI-CHAMBERED FLAT-OVAL ALUMINUM TUBES

Multi-chambered tubes optional with braze paste ALUMASIL FX-12A-Cs.



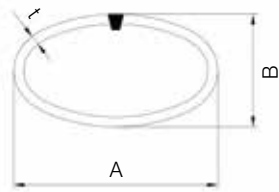
A	B	t	2 Cha	3 Cha	Dimple	End Free
26	1.7	0.3	x			x
26	1.8	0.3 0.4	x			x
32	2.05	0.32	x			x
34	1.8	0.26 0.32	x			x
34	2.05	0.26	x			x
35	1.5	0.3	x			x
40	2.05	0.32 0.4	x			x
40	2.05	0.36 0.4	x		x	x
40	2.05	0.4	x			x
42	2.02	0.35	x		x	x
42	2.02	0.35	x			x
48	2.05	0.35	x			x
52	1.85	0.4	x		x	x
52	1.85	0.4		x		x
52	1.85	0.4		x	x	x

ROUND ALUMINUM OIL/MANIFOLD TUBES



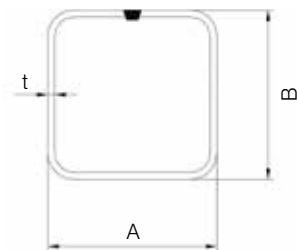
Ø	t
10	1
15.88	1.2
16	1
17	1 1.2
19	1.3 1.5
20	1 1.2 1.5
22	1.3 1.5
22.2	1.28 1.3
24	1 1.5
25	1 1.5
27	1.2 1.5
30	1
30.16	1.3 1.55
31.75	1.5
32	1
37.6	2
40	1.5

OVAL ALUMINUM TUBES (SPECIAL APPLICATION)



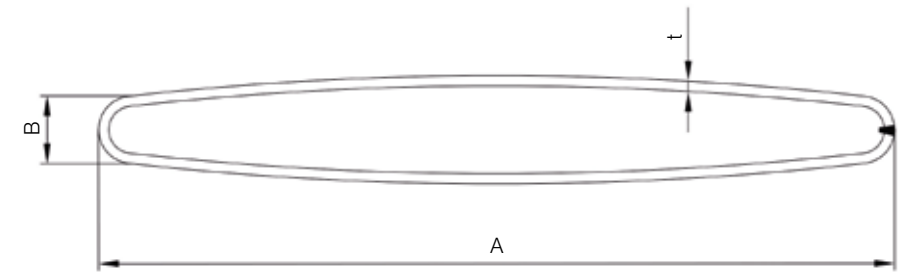
A	B	t
18.45	8.45	1.25
29	20.5	1.5
31.2	17.2	1.5

ALUMINUM BOX SECTION TUBES



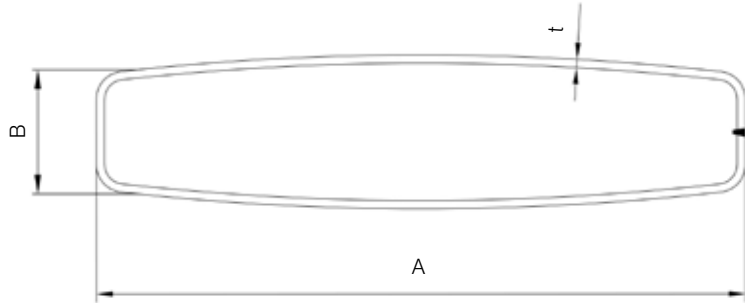
A	B	t
21.5	21.5	1.5
24.5	24.5	1
32.5	21.5	1.5

FLAT-OVAL ALUMINUM AIR/OIL TUBES



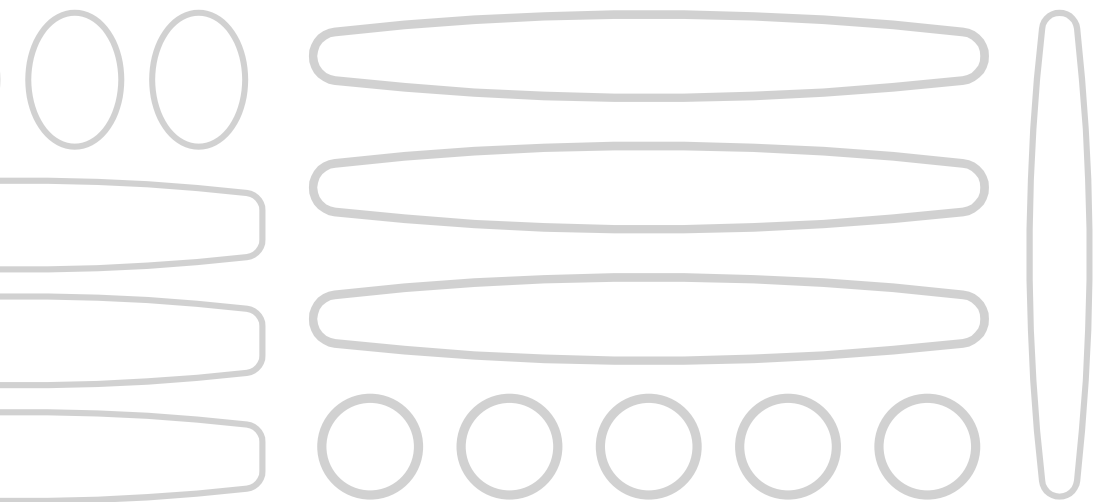
A	B	t
15.77	3.9	0.5
25.4	3.1	0.33
29.65	4.25	0.5
29.8	10.2	0.51
30	4	0.6
31.15	3.1	0.33
40	6	0.4
42	3.1	0.33
44.9	4	0.5
45	4	0.5 0.6
49.5	6.5	0.5
50	6	0.4
50	8.03	0.5
50	8.08	0.5
57.1	10.2	0.5
60	4	0.5
61.5	6.5	0.5
62.2	6	0.4
63	4.3	0.6
68	8.6	0.5
70	6	0.4
72.6	7.8	0.5 0.6

RECTANGULAR ALUMINUM AIR/OIL TUBES – FLAT



A	B	t
26	7.88	0.4
32	7.88	0.4
34.9	7.75	0.48
38	10.2	0.51
41.27	10.97	0.5
42.27	10.97	0.5
49.9	9.92	0.4 0.48
50	8.08	0.5 0.51
51.94	9.91	0.63
56.14	10.97	0.5
57	10.18	0.4 0.51
61.87	9.92	0.4
63	10	0.5
64	8.08	0.4 0.5 0.6
67.95	8.58	0.5
69.88	9.91	0.63

A	B	t
70	7.3	0.4
70	8	0.4
70.11	10.97	0.5
72.6	10.2	0.51
74	8	0.4
76	8.08	0.5 0.6
80	7.88	0.4
85	10	0.4 0.5
90	7.5	0.4 0.5
93.87	7.85	0.4





ARUP

TUBING SYSTEMS 

ARUP GmbH

Breisenbachstrasse 87
44357 Dortmund - Germany

 + 49 (0) 231 9920-102

 + 49 (0) 231 99-20100

 sales@thermasystubing.com

 www.arup.de

