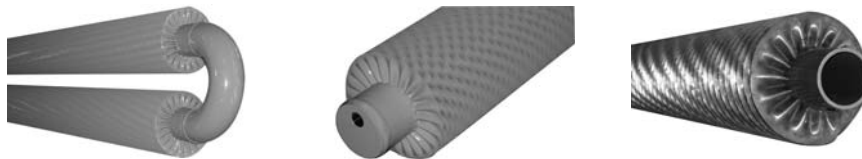




# Finned pipes

*Easy to install -  
Resilient  
Zero maintenance  
Attractive design*



TA

## USE

Static heating or frost protection in many types of spaces, primarily extremely long ones, such as corridors, workshops, greenhouses, storage areas.

Painted TA finned pipes are particularly ideal for renovated lofts and other contemporary architecture.

They are not recommended for use in corrosive atmospheres or humid spaces (pools, abattoirs, etc.).

Primary coolant: water, superheated water, steam to a maximum allowable pressure (PS) of 10 bar eff. or thermal fluids.

TA finned pipes are designed for horizontal installation.

They are classified under Article 3.3 of Pressure Equipment Directive 97/23/EC.

Maximum pipe length: 5.7 m (4 m if painted).

## DESCRIPTION

Seamless, drawn P235TR2 steel pipe.

Pleated steel strip wound around pipe and welded at both ends.

Four types of finned pipe ends : smooth, with threaded connectors, with centred flanges and downward-pointing connectors.

Finish: bare or baked epoxy coating (50 microns, max. temperature 120°C). The smooth-end version is not available on painted finned pipes.

## PRODUCT CODE

Finned pipe	TA 15	EL / EL	length: 2340
dia. and fin pitch		ends	length (L)

## ACCESSORIES

Welded 180° elbow and spacers for stacked finned pipes.

Coupling + 1/8" bleed cap.

Mounts (sold with TA finned pipes only).

Baked epoxy coating option (for L ≤ 4 only): highly resistant paint available in any shade in the colour chart, **light shades excepted** (e.g. white, cream, light grey, aluminium). The epoxy coating is for aesthetic purposes; only it does not protect against corrosion.

## SAFETY

CAUTION: The fins have sharp edges. Protect them to prevent injury, especially if children are present.

## HEAT RELEASE

The amount of heat released by a finned pipe depends on the  $\Delta T$ , the difference between the mean temperature of the heating medium and the ambient air temperature. For a given power level, determine the number of the finned pipe and the length (L) needed to dissipate the heat.

Pipes are limited to a maximum length of 5.70 metres (4 metres if painted).

Pipe	Fin pitch	TA	Transfer of heat in Watts per metre according to $\Delta T$ in °C*													
			30	40	50	60	70	80	90	100	110	120	130	140	150	160
26.9 x 2.3 DN 20	6	<b>15</b>	210	301	398	500	606	716	829	946	1066	1188	1313	1440	1570	1702
	8	<b>16</b>	170	243	322	404	490	578	670	765	862	961	1063	1166	1270	1377
	10	<b>17</b>	146	210	277	348	421	498	577	658	741	826	913	1002	1092	1184
	12	<b>18</b>	132	189	250	314	381	450	521	595	670	747	826	906	987	1070
42.4 x 2.6 DN 32	8	<b>40</b>	382	547	723	908	1102	1302	1508	1720	1938	2161	2388	2620	2856	3096
	10	<b>41</b>	321	460	608	763	926	1094	1267	1445	1628	1815	2006	2201	2399	2601
	12	<b>42</b>	281	402	532	668	810	957	1109	1265	1425	1589	1756	1927	2100	2276
	15	<b>43</b>	235	336	444	558	677	800	926	1056	1190	1327	1466	1609	1754	1901
48.3 x 2.6 DN 40	8	<b>45</b>	408	585	773	970	1177	1390	1611	1837	2070	2308	2550	2798	3050	3306
	10	<b>46</b>	343	492	650	817	990	1170	1356	1547	1742	1942	2147	2355	2567	2783
	12	<b>47</b>	296	425	561	705	855	1010	1170	1335	1504	1676	1853	2033	2216	2402
	15	<b>48</b>	256	366	484	608	737	871	1010	1151	1297	1446	1598	1753	1911	2072
60.3 x 2.9 DN 50	10	<b>50</b>	386	552	730	917	1112	1314	1522	1736	1956	2181	2410	2644	2882	3124
	12	<b>51</b>	333	477	630	792	960	1134	1314	1499	1689	1883	2081	2283	2488	2698
	15	<b>52</b>	282	404	533	670	812	960	1112	1268	1429	1593	1761	1931	2105	2282
	18	<b>53</b>	250	357	472	593	719	850	984	1123	1265	1410	1559	1710	1864	2020
76.1 x 2.9 DN 65	12	<b>70</b>	488	700	924	1160	1407	1663	1927	2198	2476	2761	3051	3347	3649	3955
	15	<b>71</b>	424	608	803	1009	1223	1445	1675	1910	2152	2399	2652	2909	3171	3437
	18	<b>72</b>	348	499	660	828	1004	1187	1375	1569	1767	1970	2178	2389	2604	2823
88.9 x 3.2 DN80	12	<b>90</b>	727	1043	1377	1728	2096	2478	2871	3275	3689	4114	4546	4987	5437	5893
	15	<b>91</b>	632	906	1196	1503	1822	2153	2496	2846	3206	3574	3951	4334	4725	5121
	18	<b>92</b>	518	743	983	1234	1496	1769	2049	2338	2632	2935	3245	3560	3880	4206
114.3 x 30.2 DN100	15	<b>115</b>	883	1267	1673	2100	2547	3011	3488	3979	4482	4998	5523	6059	6606	7160
	18	<b>116</b>	768	1101	1453	1826	2214	2616	3033	3458	3895	4342	4801	5266	5741	6222

\* The values indicated in the table have been obtained in optimal conditions of air circulation around the finned pipes.

### Selection example

Heat loss in the room = 2000 W

Available space for finned pipe = 2 metres.

Heating water set at 80°C.

Desired room temperature = 20°C, or  $\Delta T = 60^\circ\text{C}$ .

Calculation of the necessary power per metre:

$2000 \text{ W} / 2 \text{ m} = 1000 \text{ W/m}$

Thus, for this example, a TA71MEME2000 and two support feet are needed.

The power consumption will be  $2 \times 1009 \text{ W} = 2018 \text{ W}$ .

### Stacked finned pipes

Finned pipes may be stacked and connected together with a 3 D 180° elbow. See the centre distance figures in the specifications table.

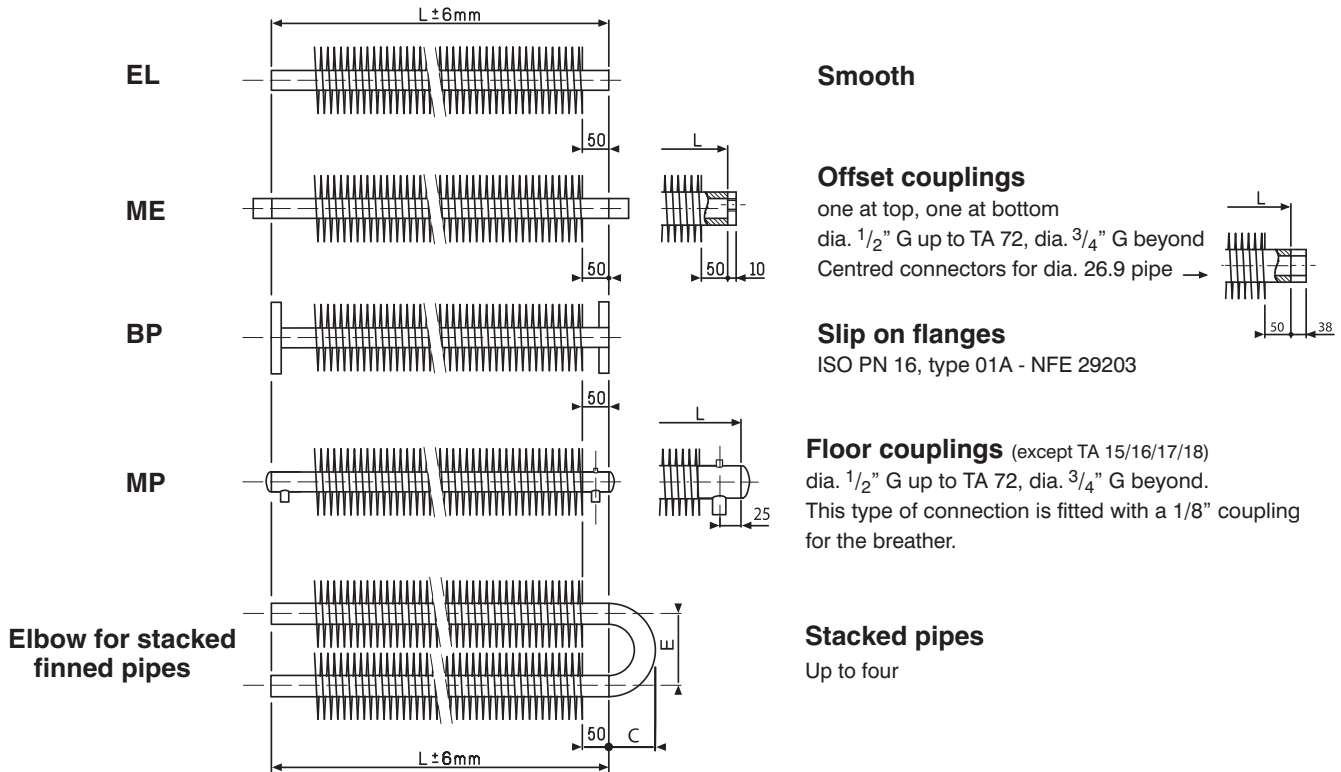
When using stacked finned pipes, multiply the heat generated by the following correction factors:

No. of stacked finned pipes	2	3	4
Correction factor	0.92	0.87	0.80

### Gutter-mounted finned pipes

Contact the factory.

## DIMENSIONS

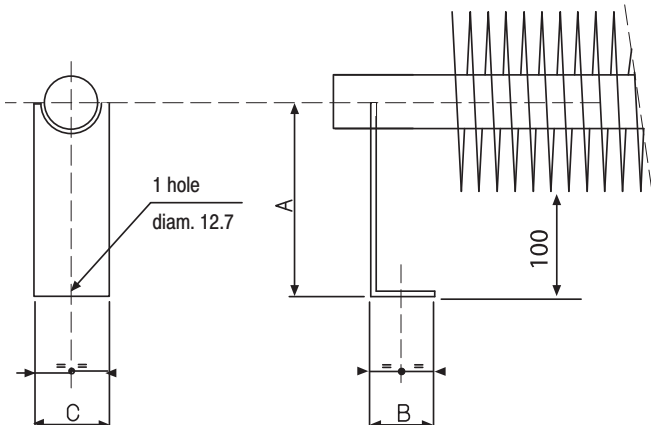


## SPECIFICATIONS

TA	15	16	17	18	40	41	42	43	45	46	47	48	50	51	52	53	70	71	72	90	91	92	115	116					
Fin pitch	mm	6	8	10	12	8	10	12	15	8	10	12	15	10	12	15	18	12	15	18	12	15	18	15	18				
Fin diameter (A)	mm	57				102				109				120				156				169				194			
Pipe dimensions (T)	mm	26.9 * 2.3				42.4 * 2.6				48.3 * 2.6				60.3 * 2.9				76.1 * 2.9				88.9 * 3.2				114.3 * 3.2			
Transfer area	m <sup>2</sup> /ml	0.8	0.6	0.5	0.4	2.1	1.7	1.4	1.2	2.3	1.9	1.6	1.3	2.1	1.8	1.5	1.3	3.1	2.5	2.1	3.3	2.7	2.3	3.3	2.8				
Estimated weight	kg/m	2.8	2.5	2.3	2.1	8.3	7.2	6.4	5.6	9.2	8.0	7.1	6.3	9.9	8.9	8.0	7.4	13.5	11.8	10.8	16.2	14.3	13.0	19.0	17.5				
Center distance between stacked pipes (E)	mm	115				185				114				152				190				228				304			
Elbows for stacked finned pipes (C)	mm	71				114				81				106				133				159				210			

## PIPE MOUNT DIMENSIONS

15/10 thick metal sheet, bare or finished with RAL paint same as that of pipe  
Two mounts should be fitted per finned pipe. Fit three or four mounts for pipe lengths of over 2.5 m.



TA	A	B	C
15 - 16 - 17 - 18	128	40	50
40 - 41 - 42 - 43	150	40	60
45 - 46 - 47 - 48	155	40	70
50 - 51 - 52 - 53	160	60	80
70 - 71 - 72	180	60	100
90 - 91 - 92	190	80	120
115 - 116	200	80	140