



# Tungum<sup>®</sup>

INSTRUMENTATION TUBING



**Range & Availability**

ISSUE 2013.1



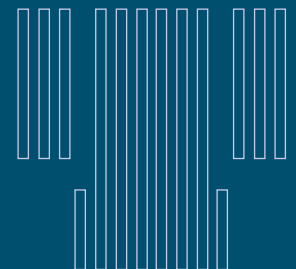
## **TUNGUM TUBING RANGE & AVAILABILITY**

Worldwide distribution

Sizes, tolerances and range

Metric range

Imperial range



## **Tungum Tubing: Worldwide Distribution Readily Available and Fast To Respond**

Tungum Tubing is readily available with stocks held around the world (including UK, Singapore, USA and Middle East).

It is fully compatible with all major fittings including 316 and 6MO; and is easy to install with no issues on tube bending, assembly or making joints. The distinctive copper colour of Tungum means there can be no confusion on tube types

Excellent anti-corrosive properties means that the working life in offshore Oil & Gas applications is 25 - 30 years, giving significant cost benefits over the project lifetime. This is why it has been specified in accordance with BP, Shell & Conoco Phillips global practices for instrumentation tubing applications.

Tungum Tubing and fittings can be found around the world contributing to the success and longevity of applications in a wide cross section of industries including - Marine, Offshore Oil & Gas, Transportation and Pharmaceutical to name just a few.

Supporting this Worldwide activity is our network of distributors who are strategically placed to offer all the technical support and advice that is required.

<b>Distributor</b>	<b>Region</b>
Fernandez Jove Global Hydraulics	Spain Singapore, Malaysia, Thailand, Vietnam, China, Indonesia and Australia
Hydrasun iTEMS PAC	Scotland, Holland, Kazakhstan, Azerbaijan, Georgia Sweden USA & Canada
Petrotech Stauff Korea	Middle East and Indian Sub-Continent South Korea

# Tungum Tubing: sizes, tolerances and range

## LENGTH OF TUNGUM TUBING

Tungum Tubing is supplied in 19 foot / 5.791 metre lengths (tolerance +/- 20mm). Sizes from 1/8" - 1/4" (3mm - 6mm) and +/- 6mm sizes from 5/16" (8mm) and larger.

## TOLERANCES

Tubes conform to the tolerances laid down in **BS EN12449 CW 700R, Cond, R430 and ASTM B706-00 Temper TF00**

The tables shown on the following pages feature the theoretical weight per unit length for a tube of nominal dimensions. Due to manufacturing tolerances, the actual weight of any given tube can vary from this datum. In such cases, the actual weight consigned and invoiced will differ slightly from that calculated theoretically.

IMPERIAL S.W.G.	US DECIMAL	MILLIMETRE
24	.020	.559
22	.028	.711
20	.035	.914
18	.049	1.220
16	.065	1.625
14	.083	2.032
12	.109	2.641
10	.120	3.251
8	.156	4.064
6	.188	4.877

The above table shows conversions to the nearest US Decimal.

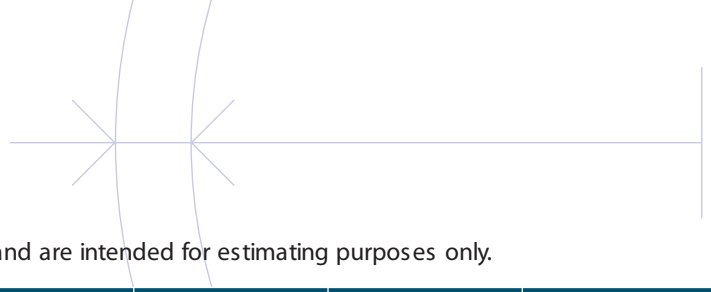
## AVAILABILITY

As a policy, large stocks of Tungum tubing are maintained in both metric and imperial sizes. Whilst this enables most popular sizes to be available ex-stock, certain of the lesser used sections must be considered as being subject to a special order.

If the range does not include your particular size requirement, please call to discuss .

Correlation table for standard wire gauge, US decimal and metric. Please note: thicknesses are not exact conversion inches to mm.

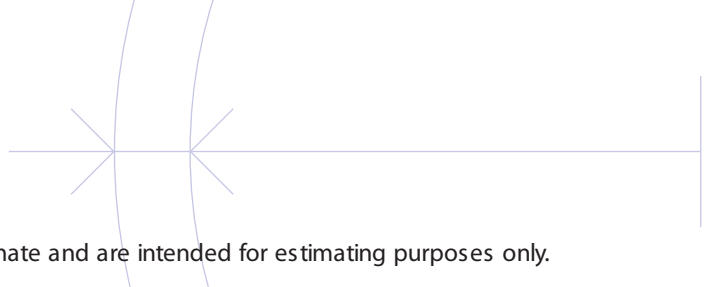
# Tungum Tubing Metric Range



NOTE: The figures shown in these tables are approximate and are intended for estimating purposes only.

OUTSIDE DIAMETER (mm)	WALL SECTION (mm)	MAXIMUM WORKING PRESSURE (Bar)	BORE DIAMETER (mm)	CROSS SECTIONAL BORE AREA (sq. mm)	WEIGHT Kg/M	WEIGHT Kg/ft
3.0	0.80	679	1.40	1.5	.047	.014
	0.50	379	2.00	3.1	.033	.010
3.5	0.80	556	1.90	2.8	.058	.018
	0.50	316	2.50	4.9	.040	.012
4.0	1.00	625	2.00	3.1	.080	.024
	0.80	473	2.40	4.5	.069	.021
	0.50	273	3.00	7.1	.047	.014
6.0	1.25	496	3.50	9.6	.159	.048
	1.00	379	4.00	12.6	.134	.041
	0.80	293	4.40	15.2	.111	.034
8.0	2.00	625	4.00	12.6	.321	.098
	1.50	436	5.00	19.6	.261	.080
	1.25	351	5.50	23.8	.226	.069
	1.00	273	6.00	28.3	.187	.057
	0.80	213	6.40	32.2	.154	.047
10.0	2.00	473	6.00	28.3	.428	.131
	1.50	335	7.00	38.5	.341	.104
	1.00	213	8.00	50.3	.241	.073
12.0	2.50	496	7.00	38.5	.636	.194
	2.00	379	8.00	50.3	.535	.163
	1.60	293	8.80	60.8	.445	.136
	1.20	213	9.60	72.4	.347	.106
	1.00	174	10.00	78.5	.294	.090
15.0	1.60	228	11.80	109.4	.574	.175
16.0	4.00	624	8.00	50.3	1.280	.390
	3.50	526	9.00	63.6	1.162	.354
	3.00	436	10.00	78.5	1.044	.318
	2.50	351	11.00	95.0	.903	.275
	2.00	273	12.00	113.1	.749	.228
	1.60	213	12.80	128.7	.617	.188
	1.00	128	14.00	153.9	.401	.122
20.0	4.00	471	12.00	113.1	1.772	.540
	3.50	401	13.00	132.7	1.546	.417
	3.00	335	14.00	153.9	1.365	.416
	2.50	273	15.00	176.7	1.171	.357
	2.00	213	16.00	201.1	.964	.294
	1.50	155	17.00	227.0	.743	.226
	1.00	101	18.00	254.5	.509	.155

# Tungum Tubing Metric Range



NOTE: The figures shown in these tables are approximate and are intended for estimating purposes only.

OUTSIDE DIAMETER (mm)	WALL SECTION (mm)	MAXIMUM WORKING PRESSURE (Bar)	BORE DIAMETER (mm)	CROSS SECTIONAL BORE AREA (sq. mm)	WEIGHT Kg/M	WEIGHT Kg/ft
25.0	5.00	471	15.00	176.7	2.677	.815
	4.00	361	17.00	227.0	2.248	.685
	3.50	310	18.00	254.5	2.014	.614
	3.00	260	19.00	283.5	1.747	.538
	2.50	213	20.00	314.2	1.506	.459
	2.00	166	21.00	346.4	1.231	.375
	1.50	123	22.00	380.1	.944	.288
	1.00	80	23.00	415.5	.642	.196
30.0	6.00	471	18.00	254.5	3.850	1.174
	5.00	379	20.00	314.2	3.346	1.020
	4.00	293	22.00	380.1	2.784	.848
	3.50	251	23.00	415.5	2.483	.757
	3.00	213	24.00	452.4	2.168	.661
	2.50	174	25.00	490.9	1.840	.561
	2.00	136	26.00	530.9	1.499	.457
	1.50	101	27.00	572.6	1.144	.349
	1.00	66	28.00	615.8	.776	.237
38.0	6.00	355	26.00	530.9	5.139	1.566
	5.00	289	28.00	615.8	4.416	1.346
	4.00	225	30.00	706.9	3.640	1.110
	3.50	194	31.00	754.8	3.233	.985
	3.00	164	32.00	804.2	2.810	.857
	2.50	135	33.00	855.3	2.376	.724
	2.00	106	34.00	908.0	1.928	.587
	1.50	79	35.00	962.1	1.465	.447
50.0	7.00	310	36.00	1018.0	8.050	2.454
	6.00	260	38.00	1134.2	7.076	2.152
	5.00	213	40.00	1256.6	6.022	1.836
	4.00	166	42.00	1385.4	4.925	1.501
	3.50	144	43.00	1452.2	4.356	1.328
	3.00	123	44.00	1520.5	3.774	1.150
	2.50	101	45.00	1590.6	3.179	.968
	2.00	80	46.00	1662.1	2.570	.782
57.0	7.00	266	43.00	1452.3	9.370	2.853
	6.00	225	45.00	1590.4	8.191	2.496
	5.00	184	47.00	1734.9	6.959	2.121
	3.50	125	50.00	1963.5	5.012	1.528
	2.00	70	53.00	2206.4	2.945	.897
76.1	5.50	149	65.10	3328.5	10.393	3.168
	2.00	51	72.14	4086.9	3.967	1.209

# Tungum Tubing Imperial Range

NOTE: The figures shown in these tables are approximate and are intended for estimating purposes only.

OUTSIDE DIAMETER (in)	WALL SECTION		MAXIMUM WORKING PRESSURE (P.S.I.)	BORE DIAMETER (in)	CROSS SECTIONAL BORE AREA (sq. in.)	WEIGHT Kg/M	WEIGHT Kg/ft
	S.W.G.	NEAREST US DECIMAL					
1/8"	18	.049	16708	.029	.001	.064	.019
	20	.035	11053	.053	.002	.055	.017
	22	.028	7978	.069	.004	.047	.014
	24	.020	5950	.081	.005	.039	.012
3/16"	18	.049	9469	.092	.007	.116	.035
	20	.035	6599	.115	.010	.094	.029
	22	.028	4905	.132	.014	.077	.024
	24	.020	3733	.143	.016	.063	.019
1/4"	16	.065	9456	.121	.012	.206	.063
	18	.049	6606	.154	.019	.167	.051
	20	.035	4702	.178	.025	.133	.041
	22	.028	3541	.194	.030	.107	.033
	24	.020	2719	.206	.033	.092	.028
5/16"	16	.065	7138	.184	.027	.276	.084
	18	.049	5074	.217	.037	.219	.067
	20	.035	3654	.240	.045	.172	.052
	22	.028	2771	.257	.052	.138	.042
	24	.020	2139	.268	.057	.110	.034
3/8"	12	.109	10509	.167	.022	.487	.148
	14	.083	7510	.215	.036	.408	.124
	16	.065	5733	.246	.048	.345	.105
	18	.049	4118	.279	.061	.271	.083
	20	.035	2986	.303	.072	.211	.064
	22	.028	2276	.319	.080	.168	.051
	24	.020	1762	.331	.086	.136	.041
1/2"	12	.109	7276	.292	.067	.711	.217
	14	.083	5316	.340	.091	.580	.177
	16	.065	4113	.371	.108	.484	.147
	18	.049	2991	.404	.128	.375	.114
	20	.035	2189	.428	.144	.288	.088
	22	.028	1676	.444	.155	.228	.070
	24	.020	1304	.456	.163	.182	.055
5/8"	12	.109	5565	.417	.137	.936	.285
	14	.083	4115	.465	.170	.753	.229
	16	.065	3206	.496	.194	.623	.190
	18	.049	2348	.529	.220	.478	.146
	20	.035	1726	.553	.240	.366	.112
	22	.028	1326	.569	.254	.289	.088
	24	.020	1034	.581	.265	.229	.070

# Tungum Tubing Imperial Range

NOTE: The figures shown in these tables are approximate and are intended for estimating purposes only.

OUTSIDE DIAMETER (in)	WALL SECTION		MAXIMUM WORKING PRESSURE (P.S.I.)	BORE DIAMETER (in)	CROSS SECTIONAL BORE AREA (sq. in.)	WEIGHT Kg/M	WEIGHT Kg/ft
	S.W.G.	NEAREST US DECIMAL					
3/4"	10	.120	5735	.494	.192	1.375	.419
	12	.109	4505	.542	.231	1.160	.354
	14	.083	3356	.590	.273	.926	.282
	16	.065	2628	.621	.303	.761	.232
	18	.049	1933	.654	.336	.582	.177
	20	.035	1426	.678	.361	.444	.135
	22	.028	1099	.694	.378	.349	.106
	24	.020	856	.706	.391	.277	.084
1"	8	.156	5316	.680	.363	2.321	.707
	10	.120	4114	.744	.435	1.927	.587
	12	.109	3263	.792	.493	1.609	.490
	14	.083	2451	.840	.554	1.271	.387
	16	.065	1930	.871	.596	1.039	.317
	18	.049	1428	.904	.642	.789	.241
	20	.035	1058	.928	.676	.599	.183
	22	.028	816	.944	.700	.470	.143
1.1/4"	8	.156	4115	.930	.679	3.012	.918
	10	.120	3208	.994	.776	2.480	.756
	12	.109	2558	1.042	.853	2.058	.627
	14	.083	1931	1.090	.933	1.616	.493
	16	.065	1526	1.121	.988	1.317	.401
	18	.049	1131	1.154	1.046	.996	.304
	20	.035	840	1.178	1.090	.755	.230
	22	.028	650	1.194	1.120	.591	.180
1.1/2"	6	.188	4115	1.116	.978	4.337	1.322
	8	.156	3356	1.180	1.094	3.702	1.128
	10	.120	2629	1.244	1.215	3.033	.924
	12	.109	2103	1.292	1.311	2.507	.764
	14	.083	1593	1.340	1.410	1.962	.598
	16	.065	1261	1.371	1.477	1.594	.486
	18	.049	938	1.404	1.548	1.204	.367
1.3/4"	6	.188	3463	1.366	1.466	5.166	1.574
	18	.049	800	1.654	2.149	1.411	.430
2"	6	.188	2989	1.616	2.051	5.995	1.827
	8	.156	2451	1.680	2.217	5.084	1.550
	10	.120	1931	1.744	2.389	4.138	1.261
	12	.109	1551	1.792	2.522	3.405	1.038
	14	.083	1180	1.840	2.659	2.652	.808
	16	.065	936	1.871	2.751	2.149	.655
2.1/2"	6	.188	2346	2.116	3.517	7.652	2.332
	16	.065	745	2.371	4.417	2.705	.824
3"	6	.188	1934	2.616	5.375	9.310	2.838
	14	.083	778	2.840	6.335	4.034	1.230



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# Tungum®

## INSTRUMENTATION TUBING

