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PIRTEK
fluid transfer solutions
Mobile hose replacement - ETA 1 hr

Rigid Tube and Couplings

CONTENT

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General Information

Steel Tube - Din 2931 and BS 3602

High precision seamless tube is used in special applications with high demands to precision of sizes, small thickness of walls, good quality of surface finish and predefined mechanical properties. The tubes are manufactured from materials ST35.0 and ST52.0.

Available in 3 and 6 metre lengths, natural or yellow zinc passivated finish.

Stainless Steel Tube - ASTM A269/A213 - 316/316L

Dual Grade

Seamless Metric and Imperial instrumentation tube is colddrawn and bright annealed. Stainless steel tube is used in a variety of applications such as offshore, chemical, petro-chemical and aggressive environments where corrosion resistance is paramount.

Available in 3 and 6 metre lengths.

Soft Coiled Copper Tube - BS 2871 Part 2

High quality coils of copper tube for general engineering purposes. This tube is suitable for hydraulic and lubrication circuits, compressed air lines, oil, water, gas, machine coolant and instrumentation lines and other applications.

Available in 10, 20, and 30 metre coils.

Composite Tube

Manufactured from polyethylene/aluminium composite tube, this unique stay-put tube can be used to replace flexible tubing in pneumatic instrument control lines.

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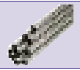	Hydraulic Steel Tube Metric Tube (DIN 2931)	**MET**	**292**
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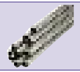
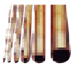
	Hydraulic Steel Tube Imperial Tube (BS 3602)	**TUBE**	**293**
	Soft Copper Metric Tube BS 2871 Part 2	**C/MET**	**293**
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For Technical Data please see Section 9

Hydraulic Steel Tube Metric Tube (DIN 2931)

Part Number	Tube O.D.	Wall Thickness	Working Pressure (Bar)
MET - 0610	6	1	470
MET - 0615	6	1.5	710
MET - 0815	8	1.5	530
MET - 1015	10	1.5	420
MET - 1020	10	2	560
MET - 1215	12	1.5	350
MET - 1220	12	2	470
MET - 1420	14	2	410
MET - 1515	15	1.5	280
MET - 1520	15	2	315
MET - 1615	16	1.5	225
MET - 1620	16	2	350
MET - 1630	16	3	530
MET - 1815	18	1.5	230
MET - 2015	20	1.5	160
MET - 2020	20	2	280
MET - 2025	20	2.5	250
MET - 2030	20	3	420
MET - 2220	22	2	250
MET - 2520	25	2	220
MET - 2530	25	3	340
MET - 2820	28	2	200
MET - 3030	30	3	280
MET - 3040	30	4	370
MET - 3520	35	2	150
MET - 3530	35	3	160
MET - 3830	38	3	220
MET - 3840	38	4	300
MET - 3850	38	5	370
MET - 4230	42	3	200

NP/MET Steel Tube Nickel Plated Metric (DIN 2931)

Part Number	Tube O.D.	Wall Thickness	Working Pressure (Bar)
NP/MET-0610	6	1	470
NP/MET-0615	6	1.5	710
NP/MET-0815	8	1.5	530
NP/MET-1015	10	1.5	420
NP/MET-1020	10	2	560
NP/MET-1215	12	1.5	350
NP/MET-1220	12	2	470
NP/MET-1420	14	2	410
NP/MET-1515	15	1.5	280
NP/MET-1520	15	2	315
NP/MET-1615	16	1.5	216
NP/MET-1620	16	2	350
NP/MET-1630	16	3	530
NP/MET-1815	18	1.5	230
NP/MET-2015	20	1.5	160
NP/MET-2020	20	2	280
NP/MET-2025	20	2.5	250
NP/MET-2030	20	3	420
NP/MET-2220	22	2	250
NP/MET-2520	25	2	220
NP/MET-2530	25	3	340
NP/MET-2820	28	2	200
NP/MET-3030	30	3	280
NP/MET-3040	30	4	370
NP/MET-3520	35	2	150
NP/MET-3530	35	3	160
NP/MET-3830	38	3	220
NP/MET-3840	38	4	300
NP/MET-3850	38	5	370
NP/MET-4230	42	3	200

Stainless Steel Metric Tube ASTM A296/A213 316/316L Dual Grade

Part Number	Tube O.D.	Wall Thickness	Working Pressure (Bar)
SS/MET - 0610	6	1	515
SS/MET - 0615	6	1.5	725
SS/MET - 0810	8	1	410
SS/MET - 1010	10	1	310
SS/MET - 1015	10	1.5	490
SS/MET - 1020	10	2	640
SS/MET - 1210	12	1	245
SS/MET - 1215	12	1.5	375
SS/MET - 1220	12	2	480
SS/MET - 1615	16	1.5	245
SS/MET - 1620	16	2	350
SS/MET - 2020	20	2	290
SS/MET - 2520	25	2	230

Stainless Steel Imperial Tube ASTM A296/A213 316/316L Dual Grade

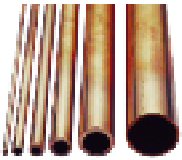
Part Number	Tube O.D.	Gauge	Working Pressure (Bar)
SS/TUBE-0414	¼	14 SWG (2.03mm)	825
SS/TUBE-0416	¼	16 SWG (1.63mm)	715
SS/TUBE-0418	¼	18 SWG (1.22mm)	520
SS/TUBE-0420	¼	20 SWG (0.90mm)	355
SS/TUBE-0612	⅜	12 SWG (2.64mm)	715
SS/TUBE-0614	⅜	14 SWG (2.03mm)	610
SS/TUBE-0616	⅜	16 SWG (1.63mm)	460
SS/TUBE-0618	⅜	18 SWG (1.22mm)	335
SS/TUBE-0620	⅜	20 SWG (0.90mm)	230
SS/TUBE-0814	½	14 SWG (2.03mm)	440
SS/TUBE-0816	½	16 SWG (1.63mm)	335
SS/TUBE-0818	½	18 SWG (1.22mm)	245
SS/TUBE-0820	½	20 SWG (0.90mm)	175
SS/TUBE-1212	¾	12 SWG (2.64mm)	355
SS/TUBE-1214	¾	14 SWG (2.03mm)	300
SS/TUBE-1216	¾	16 SWG (1.63mm)	230
SS/TUBE-1218	¾	18 SWG (1.22mm)	165
SS/TUBE-1614	1	14 SWG (2.03mm)	220

Hydraulic Steel Tube Imperial Tube (BS 3602)

Part Number	Tube O.D.	Gauge	Working Pressure (Bar)
TUBE-0416	¼	16 SWG (1.63mm)	615
TUBE-0418	¼	18 SWG (1.22mm)	460
TUBE-0614	⅜	14 SWG (2.03mm)	510
TUBE-0616	⅜	16 SWG (1.63mm)	410
TUBE-0618	⅜	18 SWG (1.22mm)	307
TUBE-0812	½	12 SWG (2.64mm)	498
TUBE-0814	½	14 SWG (2.03mm)	383
TUBE-0816	½	16 SWG (1.63mm)	308
TUBE-1012	⅝	12 SWG (2.64mm)	398
TUBE-1014	⅝	14 SWG (2.03mm)	306
TUBE-1016	⅝	16 SWG (1.63mm)	246
TUBE-1210	¾	10 SWG (3.25mm)	409
TUBE-1212	¾	12 SWG (2.64mm)	332
TUBE-1214	¾	14 SWG (2.03mm)	255
TUBE-1216	¾	16 SWG (1.63mm)	205
TUBE-1608	1	08 SWG (4.06mm)	383
TUBE-1610	1	10 SWG (3.25mm)	307
TUBE-1612	1	12 SWG (2.64mm)	249
TUBE-1614	1	14 SWG (2.03mm)	191
TUBE-2006	1¼	06 SWG (4.88mm)	368
TUBE-2008	1¼	08 SWG (4.06mm)	306
TUBE-2010	1¼	10 SWG (3.25mm)	245
TUBE-2012	1¼	12 SWG (2.64mm)	199
TUBE-2014	1¼	14 SWG (2.03mm)	153
TUBE-2410	1½	10 SWG (3.25mm)	204
TUBE-2412	1½	12 SWG (2.64mm)	166
TUBE-3210	2	10 SWG (3.25mm)	153

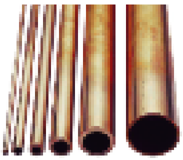
Soft Copper Metric Tube BS 2871 Part 2

Part Number	Tube O.D.	Wall Thickness	Working Pressure (Bar)
C/MET - 0610	6	1	210
C/MET - 0810	8	1	15 0
C/MET - 1010	10	1	115
C/MET - 1210	12	1	95



Soft Copper Imperial Tube BS 2871 Part 2

Part Number	Tube O.D.	Gauge	Working Pressure (Bar)
C/TUBE-0222	⅛	22 SWG (0.711mm)	315
C/TUBE-0220	⅛	20 SWG (0.90mm)	435
C/TUBE-0320	³⁄₁₆	20 SWG (0.90mm)	210
C/TUBE-0420	¼	20 SWG (0.90mm)	175
C/TUBE-0520	⁵⁄₁₆	20 SWG (0.90mm)	130
C/TUBE-0620	⅜	20 SWG (0.90mm)	110
C/TUBE-0820	½	20 SWG (0.90mm)	75
C/TUBE-1020	⅝	20 SWG (0.90mm)	70
C/TUBE-1220	¾	20 SWG (0.90mm)	55



Metal/Composite Tubing

10 bar (150 psi) working pressure

Features
- Tube material:

Polyethylene/Aluminium composite: black, high-density polyethylene bonded to an overlapped aluminium tape having an ethylene copolymer coating
- Temperature range:-40°C to +80°C (- 40°F to +176°F)

Construction
- High density polyethylene cover
- Polyethylene/Aluminium core tube

Application
- 1300 is a unique composite-wall tubing designed for pneumatic instrument control systems.

Benefits
- 1300 fully bonded polyethylene/Aluminium construction combines the advantages of both metal and plastic tubing.Tubing is manufactured in long, continuous lengths that can eliminate many fitting connections, yet it is light enough for an installer to carry to practically any location (approximately 5 times lighter than an instrument control tube of similar diameter)1300 shape holding ability can provide neat looking bends without special bending tools, yet the metal reinforced tube wall gives 1300 greater pressure ratings than just plain plastic tubing. The tubing can be cut cleanly with a standard utility knife.

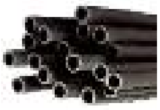
Greater strength
The outer high-density polyethylene layer is impervious to most chemical-containing atmospheres and enables 1300 to out perform practically all types of unprotected metal tubing.1300 is also externally corrosion, water and steam resistant; it is very slightly permeable.The majority of thermoplastics, though having weak water absorption, are steam and gas permeable.1300 inner aluminum sheet reduces this phenomenon to the bare minimum.

Easy to install
The inner aluminum layer adds tube wall strength that permits 1300 to span large distances without additional support. It also makes a perfect tubing choice for direct burial without additional protection, from concrete to earth installations.Welding projections do not damage the tubing nor 1300 performance level.

Connection
1300 tubes are sized to connect with standard compression and pneumatic push-in fittings without special tube preparation.Full plastic tubing implies the use of connections including plastic supports and ends. Sheathed metal tubes must usually be stripped before being connected.1300 eliminates this operation.

Tube Composite Metal/Plastic Metric

Part Number	Tube O.D. (inch)	Working Pressure (Bar)
1300-M06	6	10
1300-M08	8	10
1300-M10	10	10
1300-M12	12	10
1300-M14	14	10
1300-M15	15	10
1300-M18	18	10



Tube Composite Metal/Plastic Imperial

Part Number	Tube O.D. (inch)	Working Pressure (Bar)
1300-04	¼	10
1300-06	⅜	10
1300-08	½	10