

TUBES

St52.3 Hydraulic Tube

Typical Analysis (Ave. values %)	C	Si	Mn	P	S
	≤0.2	≤0.55	≤1.6	≤0.035	≤0.035
NEAREST STANDARD	SAE	DIN	AFNOR	SIS	
	1518	1.0570	20 M5	2172	

DESCRIPTION	Low carbon steel grade, excellent weldable, the most widely used steel grade used for cylinder tubes. Normally supplied stressed relieved and annealed to either Din 2391-C for seamless tubes or Din 2393-C for welded tubes. Supplied either stressed relieved and annealed or normalised.
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MECHANICAL PROPERTIES	Ruling section	Yield Strength MPa	Tensile Strength MPa	Elong. %
	<16 mm wall	≥355	490-630	22
	16-40 mm wall	≥345	490-630	22

TUBE FINISH	Un-honed	As the name states the tube has been drawn but no surface finish process has taken place. The tube is usually 0.15" or .38mm under bore size and there is no measurable surface finish
	Honed	The tube is put through a honing process which gives a cross hatch effect on the surface and helps to lubricate the seal. This process is slow and expensive and usually results in a surface finish of .3 to .4 <i>um Ra</i>
	Skived & Roller Burnished	This tube has a different surface finishing process and is quicker and cheaper to manufacture than honing. Metal is cut away and than rolled smooth. This process gives a clean finish with a surface finish of 0.8 <i>umRa</i> .
	S.S.I.D	Super Smooth Inside Diameter this process is more like un-honed except the tube passes through a further rolling process. This creates a more concentric cylinder bore to the outside diameter. Surface finish is .8 <i>umRa</i> .

SIZE RANGE	Un-honed	50.8 OD x 38.1 ID to 279.4 OD x 254 ID
	Honed	31.75 OD x 25.39 ID to 254 OD x 220 ID
	Skived & Roller Burnished	47.62 OD x 38.1 ID to 254 OD x 228.6 ID
	Super Smooth ID	63.5 OD x 44.45 ID to 88.55 OD x 69.85 ID

A179 Feedline Tube

Typical Analysis (Ave. values %)	C	Si	Mn	P	S
	0.06-0.18	≤0.25	0.6	≤0.048	≤0.058
NEAREST STANDARD	DIN				
	1.0255				

DESCRIPTION	Low carbon cold drawn steel grade, offering excellent weldable, and formability used extensively as hydraulic & pneumatic feed line tube.
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Outside Diameter mm	Wall mm	Gauge	Indicative working pressure PSI Safety factor 3:1	Weight Kg/M
6.4	0.9	20	4431	0.12
9.52	1.22	18	3959	0.25
9.52	1.63	16	5292	0.32
12.7	1.22	18	2969	0.35
12.7	1.63	16	3969	0.45
12.7	2.03	14	4945	0.53
15.88	1.22	18	2375	0.44
15.88	1.63	16	3174	0.57
15.88	2.03	14	3955	0.69
19.05	1.22	18	1980	0.54
19.05	1.63	16	2646	0.70
19.05	2.03	14	3298	0.85
19.05	2.64	12	4288	1.07
19.05	3.25	10	6666	1.27
25.4	1.63	16	1985	0.96
25.4	2.03	14	2470	1.17
25.4	2.64	12	3217	1.48
25.4	3.25	10	3959	1.78
31.8	2.03	14	1980	1.77
31.8	2.64	12	2570	1.90
31.8	3.25	10	3165	2.28
38.1	3.25	10	2636	2.78
50.8	3.25	10	1980	3.81

SIZE RANGE	Both Un-Plated & Zinc Plated stocked in the above sizes
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LOCATIONS

Bohler Uddeholm Australia Pty Ltd ABN 15000013052

Sydney	129-135 McCredie Rd Guildford	2161	Ph (02) 8724 5554	Fax (02) 8724 5555
Newcastle	3 Pavilion Pl Cardiff	2285	Ph (02) 4954 6611	Fax (02) 4956 5773
Albury	1 Eames St Albury	2640	Ph (02) 6041 3399	Fax (02) 6041 1820
Wollongong	40 Doyle Ave Unanderra	2526	Ph (02) 4272 6544	Fax (02) 4272 7563
Marayong	1/21 Binney Rd Marayong	2148	Ph (02) 9831 4431	Fax (02) 9671 1682
Melbourne	282-290 Greens Rd Dandenong	3175	Ph (03) 9767 5554	Fax (03) 9767 5555
Bayswater	4 Amsted Rd Bayswater	3153	Ph (03) 9739 8022	Fax (03) 9739 8033
Adelaide	1 Williams Cir Pooraka	5095	Ph (08) 8368 4554	Fax (08) 8368 4555
Brisbane	12-18 Limestone St Darra	4076	Ph (07) 3712 9554	Fax (07) 3712 9555
Townsville	9-11 Caldwell St Garbutt	4814	Ph (07) 4479 4800	Fax (07) 4725 1316
Perth	29-33 Gauge Cir Canningvale	6155	Ph (08) 9455 8672	Fax (08) 9455 8673
Kewdale	5 Beete St Welshpool	6106	Ph (08) 9350 9582	Fax (08) 9350 9683
Launceston	20 Murphy St Invermay	7248	Ph (03) 6334 3542	Fax (03) 6331 4001

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