Capillary Tube

Qteq's Capillary Tubing is available in both welded and seamless forms, and in a range of sizes to suit a wide variety of applications. The tubing metallurgy can also be varied to combat in-situ corrosion potential. Stainless steels exhibit excellent forming and welding characteristics, while duplex stainless steels (named for their austenite and ferrite compositions), have greater yield strength than austenitic stainless steel. Nickel alloys have high corrosion resistance and strength, while super-austenitic alloys were designed to resist crevice corrosion, pitting, chloride-induced corrosion, and stress corrosion cracking.

Features and Benefits

- Available in wide range of sizes and metallurgies to suit all well conditions and all applications
- Manufactured using API accredited processes
- Cost effective solution for injection, sampling and inflate packer applications
- Deployed using hydraulic spooling units specifically design for high load demands
- High strength materials to suit required depths, pressures and wellbore fluid compositions.

Specifications

Sizes	¼", ⅜", ½", 1"
Metallurgy	316L, 2205
Wall Thickness	0.035", 0.049", 0.065"
Weld	Laser, TIG
Quality Assurance	NDE, X-Ray, Pressure Testing
Certification	API Q1
Typical Tensile Strength	
Typical Yield Strength	
Calculated Burst Pressure	Please see table below
Recommended Test Pressure	

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OD (in)	WT (in)	Alloy	Min Tensile Strength (psi)	Min Yield Strength (psi)	Min Tensile Strength (lbs)	Min Yield Strength (lbs)	80% Min Yield Strength (lbs)	Theoretical Collapse Pressure (psi)	Theoretical Burst Pressure (psi)	Theoretical Working Pressure (psi)	Recommended Test Pressure (psi)
0.250	0.035	316L	75,000	30,000	1,773	709	567	6,600	21,100	6,400	7,700
	0.049				2,321	928	743	8,700	30,700	9,300	11,100
	0.065				2,833	1,133	907	10,700	41,900	12,600	15,100
0.250	0.035	2,205	95,000	70,000	2,246	1,655	1,324	15,400	26,800	14,900	17,800
	0.049				2,939	2,166	1,733	20,300	38,900	21,600	25,000
	0.065				3,589	2,644	2,116	25,100	53,000	29,500	25,000
0.375	0.035	316L	75,000	30,000	2,804	1,122	897	4,600	13,600	4,100	5,000
	0.049				3,764	1,506	1,204	6,200	19,600	5,900	7,100
	0.065				4,748	1,899	1,519	7,900	26,800	8,100	9,700
0.375	0.035	2,205	95,000	70,000	3,552	2,617	2,094	10,700	17,200	9,600	11,500
	0.049				4,767	3,513	2,810	14,500	24,800	13,800	16,500
	0.065				6,014	4,431	3,545	18,400	33,900	18,900	22,600
0.500	0.035	316L	75,000	30,000	3,835	1,534	1,227	3,500	10,000	3,100	3,700
	0.049				5,207	2,083	1,666	4,800	14,300	4,400	5,200
	0.065				6,662	2,665	2,132	6,200	19,500	5,900	7,100
0.500	0.035	2,205	95,000	70,000	4,857	3,579	2,863	8,200	12,700	7,100	8,500
	0.049				6,595	4,860	3,888	11,200	18,200	10,100	12,100
	0.065				8,439	6,218	4,974	14,400	24,700	13,800	16,500
1.000	0.083	316L	75,000	30,000	17,933	7,173	5,739	13,700	23,800	5,900	7,100