Seamless cold drawn EO stainless steel tube | Material 316L (1.4404)

Acc. to ASTM A269/A213, DIN EN 10305-4

1. DNV Bended pipe including manufacturing and corrosion tolerances.
2. DNV Straight pipe including manufacturing and corrosion tolerances.
3. Burst pressure (B.P.) calculation = Based on Tensile value, wall thickness tolerance not included.

Material 316L (1.4404)		d_a Outer-Ø (mm)	Outer-Ø Tolerance (mm)	s Wall-thickness (mm)	d_i Inner-Ø (mm)	Design pressure		3 Burst pressure bar	Weight kg/m
Surface						1 DNV PN bar	2 DNV PN bar		
pickled	bright annealed								
Order code									
	R12X1.5-316BA	**12**	±0.08	**1.5**	9.0	380	437	1514	0.394
R16X2-316		**16**	±0.08	**2.0**	12.0	380	437	1514	0.701
R18X2-316		**18**	±0.08	**2.0**	14.0	334	383	1325	0.801
R20X2-316		**20**	±0.08	**2.0**	16.0	298	341	1178	0.901
R20X2.5-316		**20**		**2.5**	15.0	380	437	1514	1.096
R25X2.5-316		**25**	±0.08	**2.5**	20.0	298	341	1178	1.409
R25X3-316		**25**		**3.0**	19.0	363	418	1445	1.653
R30X3-316		**30**	±0.08	**3.0**	24.0	298	341	1178	2.028
R30X4-316		**30**		**4.0**	22.0	409	470	1631	2.604
R38X2.5-316		**38**	±0.15	**2.5**	33.0	190	217	746	2.222
R38X3-316		**38**		**3.0**	32.0	231	264	909	2.629
R38X4-316		**38**		**4.0**	30.0	315	361	1247	3.405
R38X5-316		**38**		**5.0**	28.0	403	463	1606	4.132
R42X3-316		**42**	±0.20	**3.0**	36.0	207	237	815	2.930
R50X3-316		**50**	±0.20	**3.0**	44.0	173	197	677	3.531
R50X5-316		**50**		**5.0**	40.0	298	341	1178	5.634
R50X6-316		**50**		**6.0**	38.0	363	418	1445	6.611
R60X3-316		**60**	±0.25	**3.0**	54.0	143	163	558	4.282
R60X5-316		**60**		**5.0**	50.0	244	280	964	6.886
R60X6-316		**60**		**6.0**	48.0	298	341	1178	8.113
R66X8.5-316		**66**	±0.30	**8.5**	49.0	393	452	1567	12.238
R73X7-316		**73**	±0.35	**7.0**	59.0	284	326	1124	11.568
R75X3-316		**75**	±0.35	**3.0**	69.0	113	129	442	5.409
R75X5-316		**75**		**5.0**	65.0	193	220	757	8.764
R80X10-316		**80**	±0.35	**10.0**	60.0	380	437	1514	17.528

Other sizes on request!

Seamless cold drawn EO stainless steel tube | Material 316Ti (1.4571)

Acc. to ASTM A269/A213, DIN EN 10305-4

1. DNV Bended pipe including manufacturing and corrosion tolerances.
2. DNV Straight pipe including manufacturing and corrosion resistance.
3. Burst pressure (B.P.) calculation = Based on Tensile value, wall thickness tolerance not included.

Material 316Ti (1.4571) Surface bright annealed Order code	d_a Outer-Ø (mm)	OuterAußen-Ø Tolerance (mm)	s Wall-thickness (mm)	d_i Inner-Ø (mm)	Design pressure 1 DNV PN bar	Design pressure 2 DNV PN bar	3 Burst pressure bar	Weight kg/m
R12X1.571	**12**	±0.08	**1.5**	9.0	380	437	1514	0.394
R16X271	**16**	±0.08	**2.0**	12.0	380	437	1514	0.701
R18X271	**18**	±0.08	**2.0**	14.0	334	383	1325	0.801
R20X271	**20**	±0.08	**2.0**	16.0	298	341	1178	0.901
R20X2.571	**20**		**2.5**	15.0	380	437	1514	1.096
R25X2.571	**25**	±0.08	**2.5**	20.0	298	341	1178	1.409
R25X371	**25**		**3.0**	19.0	363	418	1445	1.653
R30X371	**30**	±0.08	**3.0**	24.0	298	341	1178	2.028
R30X471	**30**		**4.0**	22.0	409	470	1631	2.604
R38X2.571	**38**	±0.15	**2.5**	33.0	190	217	746	2.222
R38X471	**38**		**4.0**	30.0	315	361	1247	3.405
R42X371	**42**	±0.20	**3.0**	36.0	207	237	815	2.930

Other sizes on request!

Seamless EO stainless steel tubes | Material 316L (1.4404)

Acc. to ASTM A269/A213

1. DIN 2413 I static pressure (W.P.) capability for straight pipe including manufacturing tolerance.
2. Burst pressure (B.P.) acc. to Faupel-von-Mises

Material 316L (1.4404) Surface pickled / bright annealed Order code		d_a Outer-Ø (mm)	Outer-Ø Tolerance (mm)	s Wall-thickness (mm)	d_i Inner-Ø (mm)	1 Design pressure DIN 2413 I static PN bar	1 Design pressure DIN 2413 III dynamic PN bar	2 Burst pressure bar	Weight kg/m
	R04X1-316BA	**04**	±0.08	**1.0**	2.0	735	539	2961	0.075
	R06X1-316BA	**06**	±0.08	**1.0**	4.0	490	383	1732	0.125
	R06X1.5-316BA	**06**		**1.5**	3.0	735	539	2961	0.169
	R08X1-316BA	**08**	±0.08	**1.0**	6.0	368	297	1229	0.175
	R10X1-316BA	**10**	±0.08	**1.0**	8.0	294	242	953	0.225
	R10X1.5-316BA	**10**		**1.5**	7.0	441	349	1524	0.319
	R10X2-316BA	**10**		**2.0**	6.0	588	447	2182	0.401
	R12X1-316BA	**12**	±0.08	**1.0**	10.0	245	205	779	0.275
	R12X1.5-316BA	**12**		**1.5**	9.0	368	297	1229	0.394
	R12X2-316BA	**12**		**2.0**	8.0	490	383	1732	0.501
	R15X1.5-316BA	**15**	±0.08	**1.5**	12.0	294	242	953	0.507
R16X2-316		**16**	±0.08	**2.0**	12.0	368	297	1229	0.701
R16X2.5-316		**16**		**2.5**	11.0	459	362	1601	0.845
R18X1.5-316		**18**	±0.08	**1.5**	15.0	245	205	779	0.620
R18X2-316		**18**		**2.0**	14.0	327	267	1074	0.801
R20X2-316		**20**	±0.08	**2.0**	16.0	294	242	953	0.901
R20X2.5-316		**20**		**2.5**	15.0	368	297	1229	1.096
R22X2-316		**22**	±0.08	**2.0**	18.0	267	222	857	1.002
R25X2-316		**25**	±0.08	**2.0**	21.0	235	197	745	1.152
R25X2.5-316		**25**		**2.5**	20.0	294	242	953	1.409
R25X3-316		**25**		**3.0**	19.0	353	286	1172	1.653
R28X2-316		**28**	±0.08	**2.0**	24.0	210	177	659	1.302
R30X2.5-316		**30**	±0.08	**2.5**	25.0	245	205	779	1.722
R30X3-316		**30**		**3.0**	24.0	294	242	953	2.028
R35X3-316		**35**	±0.15	**3.0**	29.0	252	210	803	2.404
R38X3-316		**38**	±0.15	**3.0**	32.0	232	195	734	2.629
R38X4-316		**38**		**4.0**	30.0	309	254	1010	3.405
R38X5-316		**38**		**5.0**	28.0	387	311	1305	4.132
R38X6-316		**38**		**6.0**	26.0	464	365	1621	4.808
R42X3-316		**42**	±0.20	**3.0**	36.0	210	177	659	2.930

Other sizes on request!

Seamless EO stainless steel tubes | Material 316Ti (1.4571)

Acc. to DIN EN 10216-5, DIN EN 10305-1

1. DIN 2413 I: Tubes with a diameter of OD/ID>2 are calculated for static stress in accordance with DIN 2413 III but with K=yield strength.
2. Evaluated in Parker Lab and Test Field. ( ) = Burst pressure (B.P.) acc. to Faupel-von-Mises

Material 316Ti (1.4571) / Surface bright annealed / Order code	d_a Outer-Ø (mm)	Outer-Ø Tolerance (mm)	s Wall-thickness (mm)	d_i Inner-Ø (mm)	Design pressure 1 DIN 2413 I static	Design pressure DIN 2413 III dynamic PN bar	2 Burst pressure bar	Weight kg/m
R04X171	**04**	±0.08	**1.0**	2.0	735	539	(2961)	0.075
R06X171	**06**	±0.08	**1.0**	4.0	490	383	1850	0.125
R06X1.571	**06**		**1.5**	3.0	735	539	2900	0.169
R08X171	**08**	±0.08	**1.0**	6.0	368	297	1300	0.175
R08X1.571	**08**		**1.5**	5.0	551	424	2050	0.244
R10X171	**10**	±0.08	**1.0**	8.0	294	242	950	0.225
R10X1.571	**10**		**1.5**	7.0	441	349	1750	0.319
R10X271	**10**		**2.0**	6.0	588	447	2400	0.401
R12X171	**12**	±0.08	**1.0**	10.0	245	205	850	0.275
R12X1.571	**12**		**1.5**	9.0	368	297	1400	0.394
R12X271	**12**		**2.0**	8.0	490	383	1900	0.501
R14X1.571	**14**	±0.08	**1.5**	11.0	315	258	1200	0.469
R14X271	**14**		**2.0**	10.0	420	334	1550	0.601
R14X2.571	**14**		**2.5**	9.0	525	406	2100	0.720
R15X171	**15**	±0.08	**1.0**	13.0	196	166	675	0.351
R15X1.571	**15**		**1.5**	12.0	294	242	1100	0.507
R15X271	**15**		**2.0**	11.0	392	314	1400	0.651
R16X1.571	**16**	±0.08	**1.5**	13.0	276	228	950	0.545
R16X271	**16**		**2.0**	12.0	368	297	1300	0.701
R16X2.571	**16**		**2.5**	11.0	459	362	1850	0.845
R16X371	**16**		**3.0**	10.0	551	424	2400	0.977
R18X1.571	**18**	±0.08	**1.5**	15.0	245	205	800	0.620
R18X271	**18**		**2.0**	14.0	327	267	1150	0.801
R20X271	**20**	±0.08	**2.0**	16.0	294	242	1050	0.901
R20X2.571	**20**		**2.5**	15.0	368	297	1400	1.095
R20X371	**20**		**3.0**	14.0	441	349	1800	1.277
R22X1.571	**22**	±0.08	**1.5**	19.0	200	170	650	0.770
R22X271	**22**		**2.0**	18.0	267	222	900	1.002
R25X271	**25**	±0.08	**2.0**	21.0	235	197	763	1.152
R25X2.571	**25**		**2.5**	20.0	294	242	1050	1.408
R25X371	**25**		**3.0**	19.0	353	286	1275	1.653
R28X1.571	**28**	±0.08	**1.5**	25.0	158	135	550	0.995
R28X271	**28**		**2.0**	24.0	210	177	700	1.302
R28X2.571	**28**		**2.5**	23.0	263	218	(840)	1.596
R30X2.571	**30**	±0.08	**2.5**	25.0	245	205	850	1.722
R30X371	**30**		**3.0**	24.0	294	242	1150	2.028
R30X471	**30**		**4.0**	22.0	392	314	1500	2.605
R35X271	**35**	±0.15	**2.0**	31.0	168	143	550	1.653
R35X2.571	**35**		**2.5**	30.0	210	177	(659)	2.035
R35X371	**35**		**3.0**	29.0	252	210	(803)	2.404
R38X2.571	**38**	±0.15	**2.5**	33.0	193	164	628	2.222
R38X471	**38**		**4.0**	30.0	309	254	1150	3.405
R42X271	**42**	±0.20	**2.0**	38.0	140	121	475	2.003
R42X371	**42**		**3.0**	36.0	210	177	750	2.930

Other sizes on request!

Seamless EO steel tubes | Material E235+N / St.37.4 (1.0308)

Acc. to DIN EN 10305-4

1. DIN 2413 I: Tubes with a diameter of OD/ID>2 are calculated for static stress in accordance with DIN 2413 III but with K=yield strength.
2. Evaluated in Parker Lab and Test Field. ( ) = Burst pressure (B.P.) acc. to Faupel-von-Mises

Material E235+N / St.37.4 (1.0308)						Desgin pressure			
Surface		d_a	Outer-Ø	s	d_i	1		2	
Phosphated and oiled	Cr(VI)-free	Outer-Ø (mm)	Tolerance (mm)	Wall-thickness (mm)	Inner-Ø (mm)	DIN 2413 I static PN bar	DIN 2413 III dynamic PN bar	Burst pressure bar	Weight kg/m
Order code									
R04X0.5	**R04X0.5CF**	**04**		**0.50**	3.0	313	273	1160	0.047
	R04X0.75CF	**04**	±0.08	**0.75**	2.5	470	391	1820	0.063
R04X1	**R04X1CF**	**04**		**1.00**	2.0	627	500	2700	0.074
	R05X1CF	**05**	±0.08	**1.00**	3.0	501	414	2120	0.099
	R06X0.75CF	**06**		**0.75**	4.5	333	288	1150	0.103
R06X1	**R06X1CF**	**06**		**1.00**	4.0	444	372	1650	0.123
R06X1.5	**R06X1.5CF**	**06**	±0,08	**1.50**	3.0	666	526	2550	0.166
	R06X2CF	**06**		**2.00**	2.0	692	662	>3500	0.197
R06X2.25	**R06X2.25CF**	**06**		**2.25**	1.5	757	725	>3500	0.208
R08X1	**R08X1CF**	**08**		**1.00**	6.0	333	288	1175	0.173
R08X1.5	**R08X1.5CF**	**08**	±0.08	**1.50**	5.0	499	412	1925	0.240
R08X2	**R08X2CF**	**08**		**2.00**	4.0	666	526	2500	0.296
	R08X2.5CF	**08**		**2.50**	3.0	658	630	2650	0.339
R10X1	**R10X1CF**	**10**		**1.00**	8.0	282	248	900	0.222
R10X1.5	**R10X1.5CF**	**10**		**1.50**	7.0	423	357	1450	0.314
R10X2	**R10X2CF**	**10**	±0.08	**2.00**	6.0	564	458	2025	0.395
R10X2.5	**R10X2.5CF**	**10**		**2.50**	5.0	705	551	2675	0.462
	R10X3CF	**10**		**3.00**	4.0	666	638	>3500	0.518
R12X1	**R12X1CF**	**12**		**1.00**	10.0	235	209	750	0.271
R12X1.5	**R12X1.5CF**	**12**		**1.50**	9.0	353	303	1150	0.388
R12X2	**R12X2CF**	**12**	±0.08	**2.00**	8.0	470	391	1600	0.493
	R12X2.5CF	**12**		**2.50**	7.0	588	474	2025	0.586
	R12X3CF	**12**		**3.00**	6.0	705	551	2600	0.666
	R12X3.5CF	**12**		**3.50**	5.0	651	624	(3109)	0.734
	R14X1.5CF	**14**		**1.50**	11.0	302	264	975	0.462
R14X2	**R14X2CF**	**14**	±0.08	**2.00**	10.0	403	342	1325	0.592
R14X2.5	**R14X2.5CF**	**14**		**2.50**	9.0	504	415	1650	0.709
	R14X3CF	**14**		**3.00**	8.0	604	485	2200	0.814
R15X1	**R15X1CF**	**15**		**1.00**	13.0	188	170	575	0.345
R15X1.5	**R15X1.5CF**	**15**	±0.08	**1.50**	12.0	282	248	950	0.499
R15X2	**R15X2CF**	**15**		**2.00**	11.0	376	321	1275	0.641
R16X1.5	**R16X1.5CF**	**16**		**1.50**	13.0	264	233	850	0.536
R16X2	**R16X2CF**	**16**	±0.08	**2.00**	12.0	353	303	1175	0.691
R16X2.5	**R16X2.5CF**	**16**		**2.50**	11.0	441	370	1500	0.832
R16X3	**R16X3CF**	**16**		**3.00**	10.0	529	433	1850	0.962
R18X1	**R18X1CF**	**18**		**1.00**	16.0	157	143	450	0.419
R18X1.5	**R18X1.5CF**	**18**		**1.50**	15.0	235	209	700	0.610
R18X2	**R18X2CF**	**18**	±0.08	**2.00**	14.0	313	273	975	0.789
R18X2.5	**R18X2.5CF**	**18**		**2.50**	13.0	392	333	1300	0.956
	R18X3CF	**18**		**3.00**	12.0	470	391	1575	1.111

Surface finish:
- Tubes with I.D. 1.5-5 mm: outside and inside oiled.
- Tubes from 6 mm I.D.: outside and inside phosphated and oiled.

- Cr(VI)-free:
These dimensions are externally thick coat passivated (thickness of coat 8-12µm), inside oilded.

Seamless EO steel tubes | Material E355+N / St.52.4 (1.0580)

Acc. to DIN EN 10305-4

1. DIN 2413 I: Tubes with a diameter of OD/ID>2 are calculated for static stress in accordance with DIN 2413 III but with K=yield strength.
2. Burst pressure (B.P.) acc. to Faupel-von-Mises

Material E355+N / St.52.4 (1.0580)		d_a	Outer-Ø	s	d_i	Design pressure		2	
Surface		Outer-Ø	Tolerance	Wall-	Inner-Ø	1 DIN 2413 I static	DIN 2413 III dynamic	Burst pressure	Weight
Phosphated and oiled	Cr(VI)-free	(mm)	(mm)	thickness (mm)	(mm)	PN bar	PN bar	bar	kg/m
Order code									
	R10X2ST52CF	**10**	±0.08	**2.00**	6.0	852	539	2671	0.395
	R12X1.5ST52CF	**12**	±0.08	**1.50**	9.0	533	357	1504	0.388
	R12X2ST52CF	**12**		**2.00**	8.0	710	461	2120	0.493
	R15X1.5ST52CF	**15**	±0.08	**1.50**	12.0	426	292	1167	0.499
	R15X2ST52CF	**15**		**2.00**	11.0	568	379	1622	0.641
	R16X1.5ST52CF	**16**		**1.50**	13.0	399	275	1086	0.536
R16X2ST52	**R16X2ST52CF**	**16**	±0.08	**2.00**	12.0	533	357	1504	0.691
	R16X2.5ST52CF	**16**		**2.50**	11.0	666	436	1959	0.832
	R18X1.5ST52CF	**18**	±0.08	**1.50**	15.0	355	247	953	0.610
	R18X2ST52CF	**18**		**2.00**	14.0	473	321	1314	0.789
	R20X2ST52CF	**20**		**2.00**	16.0	426	292	1167	0.888
	R20X2.5ST52CF	**20**	±0.08	**2.50**	15.0	533	357	1504	1.079
	R20X3ST52CF	**20**		**3.00**	14.0	639	420	185	1.258
	R22X1.5ST52CF	**22**	±0.08	**1.50**	19.0	290	204	767	0.758
	R22X2ST52CF	**22**		**2.00**	18.0	387	267	1049	0.986
	R25X2.5ST52CF	**25**		**2.50**	20.0	426	292	1167	1.387
R25X3ST52	**R25X3ST52CF**	**25**	±0.08	**3.00**	19.0	511	344	1435	1.628
	R25X4ST52CF	**25**		**4.00**	17.0	682	445	2016	2.072
	R28X2ST52CF	**28**	±0.08	**2,00**	24.0	304	213	806	1.282
R30X3ST52	**R30X3ST52CF**	**30**		**3.00**	24.0	426	292	1167	1.998
	R30X4ST52CF	**30**	±0.08	**4.00**	22.0	568	379	1622	2.565
	R30X5ST52CF	**30**		**5.00**	20.0	710	461	2120	3.083
	R35X3ST52CF	**35**	±0.15	**3.00**	29.0	365	253	983	2.367
	R38X3ST52CF	**38**		**3.00**	32.0	336	234	899	2.589
R38X4ST52	**R38X4ST52CF**	**38**	±0.15	**4.00**	30.0	448	306	1236	3.354
	R38X5ST52CF	**38**		**5.00**	28.0	561	374	1597	4.069
	R38X6ST52CF	**38**		**6.00**	26.0	673	440	1984	4.735
	R42X3ST52CF	**42**		**3.00**	36.0	304	213	806	2.885
	R42X4ST52CF	**42**	±0.20	**4.00**	34.0	406	279	1105	3.748
	R42X5ST52CF	**42**		**5.00**	32.0	507	342	1422	4.562

Surface finish:
- Tubes with I.D. 1.5-5 mm: outside and inside oiled.
- Tubes from 6 mm I.D.: outside and inside phosphated and oiled.

- Cr(VI)-free:
These dimensions are externally thick coat passivated (thickness of coat 8-12µm), inside oilded.

Other sizes on request!

Seamless EO steel tubes (continued) | Material E235+N / St.37.4 (1.0308)

Acc. to DIN EN 10305-4

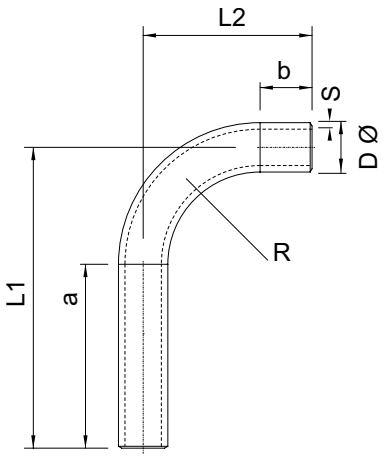
1. DIN 2413 I: Tubes with a diameter of OD/ID>2 are calculated for static stress in accordance with DIN 2413 III but with K=yield strength.
2. Evaluated in Parker Lab and Test Field.

Material E235+N / St.37.4 (1.0308)						Design pressure			
Surface		d_a Outer-Ø (mm)	Outer-Ø Tolerance (mm)	s Wall-thickness (mm)	d_i Inner-Ø (mm)	1 DIN 2413 I static PN bar	DIN 2413 III dynamic PN bar	2 Burst pressure bar	Weight kg/m
Phosphated and oiled	Cr(VI)-free								
Order code									
	R20X1.5CF	**20**	±0.08	**1.50**	17.0	212	190	675	0.684
R20X2	**R20X2CF**	**20**		**2.00**	16.0	282	248	900	0.888
R20X2.5	**R20X2.5CF**	**20**		**2.50**	15.0	353	303	1100	1.079
R20X3	**R20X3CF**	**20**		**3.00**	14.0	423	357	1400	1.258
	R20X3.5CF	**20**		**3.50**	13.0	494	408	1650	1.424
	R20X4CF	**20**		**4.00**	12.0	564	458	2000	1.578
R22X1.5	**R22X1.5CF**	**22**	±0.08	**1.50**	19.0	192	173	550	0.758
R22X2	**R22X2CF**	**22**		**2.00**	18.0	256	227	775	0.986
R22X2.5	**R22X2.5CF**	**22**		**2.50**	17.0	320	278	1025	1.202
	R22X3CF	**22**		**3.00**	16.0	385	328	1175	1.406
R25X2	**R25X2CF**	**25**	±0.08	**2.00**	21.0	226	201	725	1.134
R25X2.5	**R25X2.5CF**	**25**		**2.50**	20.0	282	248	850	1.387
R25X3	**R25X3CF**	**25**		**3.00**	19.0	338	292	1025	1.628
R25X4	**R25X4CF**	**25**		**4.00**	17.0	451	378	1500	2.072
	R25X4.5CF	**25**		**4.50**	16.0	508	418	1625	2.275
R28X1.5	**R28X1.5CF**	**28**	±0.08	**1.50**	25.0	151	138	425	0.980
R28X2	**R28X2CF**	**28**		**2.00**	24.0	201	181	600	1.282
R28X2.5	**R28X2.5CF**	**28**		**2.50**	23.0	252	223	750	1.572
R28X3	**R28X3CF**	**28**		**3.00**	22.0	302	264	900	1.850
	R30X2CF	**30**	±0.08	**2.00**	26.0	188	170	575	1.381
R30X2.5	**R30X2.5CF**	**30**		**2.50**	25.0	235	209	725	1.695
R30X3	**R30X3CF**	**30**		**3.00**	24.0	282	248	850	1.998
R30X4	**R30X4CF**	**30**		**4.00**	22.0	376	321	1175	2.565
R30X5	**R30X5CF**	**30**		**5.00**	20.0	470	391	1600	3.083
R35X2	**R35X2CF**	**35**	±0.15	**2.00**	31.0	161	147	450	1.628
R35X2.5	**R35X2.5CF**	**35**		**2.50**	30.0	201	181	600	2.004
R35X3	**R35X3CF**	**35**		**3.00**	29.0	242	215	700	2.367
	R35X4CF	**35**		**4.00**	27.0	322	280	960	3.058
	R38X2.5CF	**38**	±0.15	**2.50**	33.0	186	168	550	2.189
R38X3	**R38X3CF**	**38**		**3.00**	32.0	223	199	675	2.589
R38X4	**R38X4CF**	**38**		**4.00**	30.0	297	260	900	3.354
R38X5	**R38X5CF**	**38**		**5.00**	28.0	371	318	1150	4.069
	R38X6CF	**38**		**6.00**	26.0	445	373	1425	4.735
	R38X7CF	**38**		**7.00**	24.0	519	427	1700	5.352
R42X2	**R42X2CF**	**42**	±0.20	**2.00**	38.0	134	123	375	1.973
R42X3	**R42X3CF**	**42**		**3.00**	36.0	201	181	575	2.885
R42X4	**R42X4CF**	**42**		**4.00**	34.0	269	237	850	3.749

Other sizes on request!

Seamless EO tube bends 90° Material E235N (St. 37.4) and 1.4571

For minimum pressure loss



Order code			Tube									
St. 37.4 phosphated	Cr(VI)-free	1.4571	O.D. D	Tolerance ±	Wall-thickness S	Tube I.D. mm	Bending radius R	Leg length a	Leg length b	Length L1	Length L2	Weight kg/piece
RB16X2	**RB16X2CF**	**RB16X271**	16	0.08	2.0	12	30	200	40	230	70	0.198
RB18X1.5	**RB18X1.5CF**	**RB18X1.571**	18	0.08	1.5	15	36	200	35	236	71	0.178
RB20X2	**RB20X2CF**		20	0.08	2.0	16	36	200	45	236	81	0.268
RB20X2.5	**RB20X2.5CF**	**RB20X2.571**	20	0.08	2.5	15	36	200	45	236	81	0.326
RB22X1.5	**RB22X1.5CF**		22	0.08	1.5	19	38	200	40	238	78	0.227
RB22X2	**RB22X2CF**	**RB22X271**	22	0.08	2.0	18	38	200	40	238	78	0.296
RB25X2	**RB25X2CF**		25	0.08	2.0	21	44	200	50	244	94	0.362
RB25X2.5	**RB25X2.5CF**	**RB25X2.571**	25	0.08	2.5	20	44	200	50	244	94	0.442
RB25X3	**RB25X3CF**		25	0.08	3.0	19	44	200	50	244	94	0.519
RB28X1.5	**RB28X1.5CF**		28	0.08	1.5	25	48	200	50	248	98	0.319
RB28X2	**RB28X2CF**	**RB28X271**	28	0.08	2.0	24	48	200	50	248	98	0.417
RB28X3	**RB28X3CF**		28	0.08	3.0	22	48	200	50	248	98	0.601
RB30X2.5	**RB30X2.5CF**		30	0.08	2.5	25	50	200	60	250	110	0.575
RB30X3	**RB30X3CF**	**RB30X371**	30	0.08	3.0	24	50	200	60	250	110	0.677
RB30X4	**RB30X4CF**		30	0.08	4.0	22	50	200	60	250	110	0.869
RB35X2	**RB35X2CF**	**RB35X271**	35	0.15	2.0	31	60	200	65	260	125	0.586
RB35X3	**RB35X3CF**		35	0.15	3.0	29	60	200	65	260	125	0.852
RB38X2.5	**RB38X2.5CF**		38	0.15	2.5	33	65	200	75	265	140	0.827
RB38X3	**RB38X3CF**		38	0.15	3.0	32	65	200	75	265	140	0.979
RB38X4	**RB38X4CF**	**RB38X471**	38	0.15	4.0	30	65	200	75	265	140	1.268
RB38X5	**RB38X5CF**		38	0.15	5.0	28	65	200	75	265	140	1.538
RB42X2	**RB42X2CF**	**RB42X271**	42	0.20	2.0	38	80	200	85	280	165	0.809
RB42X3	**RB42X3CF**		42	0.20	3.0	36	80	200	85	280	165	1.183
RB50X6			50	0.20	6.0	38	180	150	150	330	330	3.496
RB65X8			65	0.30	8.0	49	180	160	160	330	330	6.294

Seamless stainless steel tubes | Material 316L (1.4404)

Acc. to ASTM A312/A999

Pressure table acc. to DNV Rules for Classification of Ships Newbuilding and Mobile Offshore Units Drilling Plants.

1. DNV Bended pipe including manufacturing and corrosion tolerances.
2. DNV Straight pipe including manufacturing and corrosion tolerances.
3. Burst pressure (B.P.) calculation = Based on Tensile value, wall thickness tolerance not included.

Material 316L (1.4404) Surface pickled Order code	d_a Outer-Ø SCH	d_a Outer-Ø mm	s Wallthickness SCH	s Wallthickness mm	d_i Inner-Ø (mm)	Design pressure 1 DNV PN bar	Design pressure 2 DNV PN bar	3 Burst pressure bar	Weight kg/m
R21.34X2.11-316	1/2"	**21,.34**	SCH 10	**2.11**	17.12	241	277	1130	1.014
R21.34X2.77-316			SCH 40	**2.77**	15.80	325	374	1536	1.285
R21.34X3.73-316			SCH 80	**3.73**	13.88	456	527	2182	1.641
R21.34X4.78-316			SCH 160	**4.78**	11.78	611	712	2973	1.977
R26.67X2.11-316	3/4"	**26.67**	SCH 10	**2.11**	24.56	190	217	885	1.299
R26.67X2.81-316			SCH 40	**2.81**	21.05	259	297	1213	1.713
R26.67X3.91-316			SCH 80	**3.91**	18.85	373	430	1769	2.231
R26.67X5.56-316			SCH 160	**5.56**	15.55	560	651	2713	2.943
R33.40X2.77-316-A999	1"	**33.40**	SCH 10	**2.77**	27.86	200	228	931	2.125
R33.40X3.38-316-A999			SCH 40	**3.38**	30.02	247	284	1160	2.541
R33.40X4.55-316-A999			SCH 80	**4.55**	24.30	343	395	1624	3.287
R33.40X6.35-316-A999			SCH 160	**6.35**	20.70	502	583	2418	4.301
R42.16X2.77-316-A999	1 1/4"	**42.16**	SCH 10	**2.77**	36.62	156	178	724	2.735
R42.16X3.56-316-A999			SCH 40	**3.56**	35.04	204	233	950	3.444
R42.16X4.85-316-A999			SCH 80	**4.85**	32.46	285	327	1339	4.536
R42.16X6.35-316-A999			SCH 160	**6.35**	29.46	384	443	1826	5.700
R48.26X2.77-316-A999	1 1/2"	**48.26**	SCH 10	**2.77**	42.72	135	154	627	3.158
R48.26X3.68-316-A999			SCH 40	**3.68**	40.90	183	209	850	4.112
R48.26X5.08-316-A999			SCH 80	**5.08**	38.10	258	296	1212	5.498
R48.26X7.14-316-A999			SCH 160	**7.14**	33.98	377	434	1788	7.359
R60.33X2.77-316-A999	2"	**60.33**	SCH 10	**2.77**	54.76	107	122	496	3.990
R60.33X3.91-316-A999			SCH 40	**3.91**	52.48	154	176	714	5.521
R60.33X5.54-316-A999			SCH 80	**5.54**	49.22	223	255	1041	7.596
R60.33X8.74-316-A999			SCH 160	**8.74**	42.82	368	424	1745	11.284
R73.03X3.05-316-A999	2 1/2"	**73.03**	SCH 10	**3.05**	66.90	97	111	449	5.342
R73.03X5.16-316-A999			SCH 40	**5.16**	62.68	168	192	783	8.765
R73.03X7.01-316-A999			SCH 80	**7.01**	58.98	234	268	1094	11.583
R73.03X9.53-316-A999			SCH 160	**9.53**	53.94	327	376	1546	15.146
R88.90X3.05-316	3"	**88.90**	SCH 10	**3.05**	82.80	79	90	366	6.557
R88.90X5.49-316-A999			SCH 40	**5.49**	77.92	146	167	678	11.466
R88.90X7.62-316-A999			SCH 80	**7.62**	73.56	207	237	966	15.509
R88.90X11.13-316-A999			SCH 160	**11.13**	66.64	312	359	1474	21.674
R114.30X3.05-316	4"	**114.30**	SCH 10	**3.05**	108.20	61	70	282	8.496
R114.30X6.02-316-A999			SCH 40	**6.02**	102.16	124	141	573	16.322
R114.30X8.56-316-A999			SCH 80	**8.56**	97.18	179	205	834	22.665
R114.30X13.49-316-A999			SCH 160	**13.49**	87.32	293	336	1378	34.053
R141.30X6.55-316-A999	5"	**141.30**	SCH 40	**6.55**	128.20	108	123	501	22.101
R141.30X9.53-316-A999			SCH 80	**9.53**	122.24	160	183	745	31.444
R141.30X15.88-316-A999			SCH 160	**15.88**	109.54	277	318	1304	49.871
R168.28X3.40-316	6"	**168.28**	SCH 10	**3.40**	161.48	46	53	212	14.039
R168.28X7.11-316-A999			SCH 40	**7.11**	154.08	98	112	454	28.697
R168.28X18.26-316-A999			SCH 160	**18.26**	131.78	267	306	1254	68.603
R219.08X8.18-316	8"	**219.08**	SCH 40	**8.18**	202.74	87	99	399	43.202
R219.08X23.01-316-A999			SCH 160	**23.01**	173.08	258	296	1209	112.981

Other sizes on request!