

# Бесшовные трубы из нержавеющей стали

## Каталог

По вопросам продаж и поддержки обращайтесь:

Алматы (727)34-54-704  
Ангарск (3955)60-70-56  
Архангельск (8182)63-90-72  
Астрахань (8512)99-46-04  
Барнаул (3852)73-04-60  
Белгород (4722)40-23-64  
Благовещенск (4162)22-76-07  
Брянск (4832)59-03-52  
Владивосток (423)249-28-31  
Владикавказ (8672)28-90-48  
Владимир (4922)49-43-18  
Волгоград (844)278-03-48  
Вологда (8172)26-41-59  
Воронеж (473)204-51-73  
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06  
Ижевск (3412)26-03-58  
Иркутск (395)279-98-46  
Казань (843)206-01-48  
Калининград (4012)72-03-81  
Калуга (4842)92-23-67  
Кемерово (3842)65-04-62  
Киров (8332)68-02-04  
Коломна (4966)23-41-49  
Кострома (4942)77-07-48  
Краснодар (861)203-40-90  
Красноярск (391)204-63-61  
Курск (4712)77-13-04  
Курган (3522)50-90-47  
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13  
Москва (495)268-04-70  
Мурманск (8152)59-64-93  
Набережные Челны (8552)20-53-41  
Нижний Новгород (831)429-08-12  
Новокузнецк (3843)20-46-81  
Ноябрьск (3496)41-32-12  
Новосибирск (383)227-86-73  
Омск (3812)21-46-40  
Орел (4862)44-53-42  
Оренбург (3532)37-68-04  
Пенза (8412)22-31-16  
Петрозаводск (8142)55-98-37  
Псков (8112)59-10-37  
Пермь (342)205-81-47

Ростов-на-Дону (863)308-18-15  
Рязань (4912)46-61-64  
Самара (846)206-03-16  
Санкт-Петербург (812)309-46-40  
Саратов (845)249-38-78  
Севастополь (8692)22-31-93  
Саранск (8342)22-96-24  
Симферополь (3652)67-13-56  
Смоленск (4812)29-41-54  
Сочи (862)225-72-31  
Ставрополь (8652)20-65-13  
Сургут (3462)77-98-35  
Сыктывкар (8212)25-95-17  
Тамбов (4752)50-40-97  
Тверь (4822)63-31-35

Тольятти (8482)63-91-07  
Томск (3822)98-41-53  
Тула (4872)33-79-87  
Тюмень (3452)66-21-18  
Ульяновск (8422)24-23-59  
Улан-Удэ (3012)59-97-51  
Уфа (347)229-48-12  
Хабаровск (4212)92-98-04  
Чебоксары (8352)28-53-07  
Челябинск (351)202-03-61  
Череповец (8202)49-02-64  
Чита (3022)38-34-83  
Якутск (4112)23-90-97  
Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +7(727) 34-54-704

Беларусь +(375) 257-127-884

Узбекистан +998(71)205-18-59

Киргизия +996(312)96-26-47

эл.почта: [cse@nt-rt.ru](mailto:cse@nt-rt.ru) || сайт: <https://tubecenter.nt-rt.ru/>

■ **STANDARDS:**

ASME SA-213/SA-213M; ASTM A269/A269M; ASME SA-312/SA312M;  
 ASME SA-789/SA-789M; ASME SB-163; ASME SB-444; EN 10216-5; EN 10305-1

■ **STEEL GRADES:**

TP304L (1.4307), TP316L (1.4435), TP317L (1.4438), TP321 (1.4541), TP316TI (1.4571),  
 S 31254, S 31803 (1.4462), S 32205 (1.4462), N 08904, N 06625, N 08825

■ **BASIC PRODUCT RANGE OF INSTRUMENTATION TUBING:**

EN 10216-5

Outside diameter	Wall thickness																			
	0.5	0.6	0.8	1	1.2	1.4	1.6	2	2.3	2.6	2.8	2.9	3.2	3.6	4	4.5	5	5.4	5.6	6.3
mm																				
4																				
5																				
6																				
8																				
10																				
10.2																				
12																				
12.5																				
13.5																				
14																				
16																				
17.2																				
18																				
19																				
19.1																				
20																				
21.3																				
22																				
25																				
25.4																				
26.9																				
30																				
31.8																				
32																				
33.7																				
35																				
38																				
40																				
42.4																				
44.5																				
48.3																				
50																				

**Note:** other sizes are available upon agreement

ASME SA-213/SA-213M; ASTM A269/A269M; ASME SA-312/SA-312M;  
 ASME SA-789/SA-789M; ASME SB-163; ASME SB-444

Outside diameter			Wall thickness																				
inch	mm	mm	0.4	0.5	0.6	0.71	0.89-0.91	1	1.2	1.4-1.5	1.6-1.65	1.83-1.9	2.0-2.03	2.11	2.2-2.3	2.4-2.5	2.6-2.64	2.7	3.0-3.05	3.18-3.2	3.5-3.6	4.0	
1/8																							
		6.0																					
1/4	6.35	6.35																					
		7.0																					
5/16	7.94	7.94																					
		9.0																					
3/8	9.53	9.53																					
		10.0																					
		10.2																					
7/16	11.00	11.11																					
		12																					
1/2	12.70	12.7																					
		13																					
		13.5																					
		14-14.3																					
		15																					
5/8		15.88																					
		16																					
		17.2-17.5																					
		18																					
		19.0-19.05																					
		20																					
		20.6-21.34																					
		22																					
		22.23																					
		23.81																					
		25																					
1	25.40	25.4																					
1 1/4	31.75																						
		32																					
		33.4																					
		33.7																					
		35																					
		36																					
1 1/2	38.10	38.10																					
		40																					
		42.0-42.4																					
1 3/4	44.45	44.45																					
		48.0-48.3																					
2	50.8	50.8																					

**SURFACE CONDITION:**  
 bright annealed

**HARDNESS:**  
 max 80HRB

**PACKING:**  
 in OSB boxes /  
 adequately protected

**TESTS:**  
 eddy current test;  
 corrosion test ASTM A 262 Practice E

## ▣ DIMENSIONAL TOLERANCES FOR

ASME SA-213/SA-213M; ASME SA-312/SA-312M

Outside diameter, mm	Tolerance limits of	
	outside diameter	wall thickness
<25.4	±0.10 mm	±10%
25.4 – 38.1	±0.15 mm	±10%
38.2 – 50.8	±0.20 mm	±10%

Roughness of the outer diameter, Ra ≤ 0.8 μm

ASTM A269/A269M; ASME SA-789/SA-789M

Outside diameter, mm	Tolerance limits of	
	outside diameter	wall thickness
<12.7	±0.13 mm	±15%
12.7 – 38.1	±0.13 mm	±10%
38.2 – 50.8	±0.25 mm	±10%

Roughness of the outer diameter, Ra ≤ 0.8 μm

ASME SB-163; ASME SB-444

Outside diameter, mm	Tolerance limits of	
	outside diameter	wall thickness
<16.0	±0.13 mm	±15%
16.0 – 38.0	±0.13 mm	±10%
38.1 – 50.8	±0.25 mm	±10%

Roughness of the outer diameter, Ra ≤ 0.8 μm

EN 10305-1

Outside diameter, mm	Tolerance limits of	
	outside diameter	wall thickness
<30.0	±0.08 mm	±10.0% with min ±0.1 mm
30.0 – 40.0	±0.15 mm	±10.0% with min ±0.1 mm
40.1 – 50.8	±0.20 mm	±10.0% with min ±0.1 mm

Roughness of the outer diameter, Ra ≤ 0.8 μm

## ■ DIMENSIONAL TOLERANCES FOR

EN 10216-5

Outside diameter, mm	Tolerance limits of			
	outside diameter		wall thickness	
	tolerance class		tolerance class	
	D3	D4	T3	T4
4.0 – 50.8	±0.75% with min ±0.30 mm	±0.50% with min ±0.10mm	±10.0% with min ±0.20 mm	±7.5% with min ±0.15 mm

Roughness of the outer diameter, Ra ≤ 0.8 μm

## ■ TESTING OF FINISHED TUBES & PIPES

Standard	Chemical composition	Relative elongation	Hardness	Flattening	Flaring	IC resistance	Hydrostatic non-destructive testing
ASTM A213	B	B	B	B	B	— <sup>1)</sup>	K <sup>2)</sup>
ASTM A269	B	—	B	—	B	— <sup>1)</sup>	K <sup>2)</sup>
ASTM B163	B	B	—	—	B	— <sup>1)</sup>	K <sup>2)</sup>
ASTM B444	B	B	—	—	—	— <sup>1)</sup>	K <sup>2)</sup>
EN 10216-5	B	B	—	—	B	— <sup>1)</sup>	K <sup>2)</sup>

B – random testing  
K – testing of each tube

- 1) Tubes shall be subjected to intergranular corrosion testing conducted by the Manufacturer in accordance with ASTM A262, Method E, unless otherwise specified.
- 2) Each tube shall be non-destructive or hydrostatic testing. The Manufacturer shall specify the type of testing to be conducted, unless otherwise specified in the Order.

## MAXIMUM WORKING PRESSURE AT AMBIENT TEMPERATURE

OD		WT		TP304L, TP316L, TP317L, 1.4307, 1.4435, 1.4438	S31254, 1.4547	N08904, 1.4539	S31803, S32205, 1.4462	N08825, 2.4858	N06625, 2.4856						
inch	mm	inch	mm	psi	bar	psi	bar	psi	bar	psi	bar	psi	bar		
0.236	6.00	0.039	1.00	7977	550	11241	775	8340	575	17586	1213	8739	603	15048	1038
0.236	6.00	0.059	1.50	11966	825	16861	1163	12510	863	26379	1819	13108	904	22572	1556
0.250	6.35	0.028	0.71	5352	369	7541	520	5595	386	11798	813	5862	404	10095	696
0.250	6.35	0.035	0.89	6708	463	9453	652	7013	484	14789	1020	7349	507	12654	872
0.250	6.35	0.036	0.91	6859	473	9665	666	7171	494	15121	1043	7514	518	12939	892
0.250	6.35	0.048	1.22	9196	634	12958	893	9614	663	20272	1398	10074	695	17347	1196
0.250	6.35	0.049	1.24	9347	644	13170	908	9771	674	20605	1421	10239	706	17631	1216
0.250	6.35	0.059	1.50	11306	780	15932	1098	11820	815	24925	1719	12386	854	21328	1470
0.250	6.35	0.063	1.60	12060	831	16994	1172	12608	869	26587	1833	13211	911	22750	1569
0.250	6.35	0.064	1.63	12286	847	17312	1194	12845	886	27085	1867	13459	928	23176	1598
0.250	6.35	0.065	1.65	12437	857	17525	1208	13002	896	27418	1890	13624	939	23461	1618
0.313	7.94	0.035	0.89	5365	370	7560	521	5609	387	11827	815	5877	405	10120	698
0.313	7.94	0.036	0.91	5486	378	7730	533	5735	395	12093	834	6009	414	10348	713
0.315	8.00	0.039	1.00	5983	413	8430	581	6255	431	13190	909	6554	452	11286	778
0.315	8.00	0.059	1.50	8974	619	12646	872	9382	647	19784	1364	9831	678	16929	1167
0.315	8.00	0.079	2.00	11966	825	16861	1163	12510	863	26379	1819	13108	904	22572	1556
0.375	9.53	0.035	0.89	4470	308	6299	434	4673	322	9854	679	4897	338	8432	581
0.375	9.53	0.036	0.91	4570	315	6440	444	4778	329	10076	695	5007	345	8621	594
0.375	9.53	0.048	1.22	6127	422	8634	595	6406	442	13508	931	6712	463	11558	797
0.375	9.53	0.049	1.24	6228	429	8775	605	6511	449	13729	947	6822	470	11748	810
0.375	9.53	0.064	1.63	8186	564	11535	795	8559	590	18047	1244	8968	618	15443	1065
0.375	9.53	0.065	1.65	8287	571	11677	805	8664	597	18269	1260	9078	626	15632	1078
0.375	9.53	0.080	2.03	10195	703	14366	991	10659	735	22476	1550	11169	770	19232	1326
0.375	9.53	0.083	2.11	10597	731	14932	1030	11079	764	23362	1611	11609	800	19990	1378
0.394	10.00	0.039	1.00	4786	330	6744	465	5004	345	10552	728	5243	362	9029	623
0.394	10.00	0.059	1.50	7179	495	10117	698	7506	518	15827	1091	7865	542	13543	934
0.394	10.00	0.063	1.60	7658	528	10791	744	8006	552	16883	1164	8389	578	14446	996
0.394	10.00	0.079	2.00	9573	660	13489	930	10008	690	21103	1455	10486	723	18057	1245

## MAXIMUM WORKING PRESSURE AT AMBIENT TEMPERATURE

OD		WT		TP304L, TP316L, TP317L, 1.4307, 1.4435, 1.4438		S31254, 1.4547		N08904, 1.4539		S31803, S32205, 1.4462		N08825, 2.4858		N06625, 2.4856	
inch	mm	inch	mm	psi	bar	psi	bar	psi	bar	psi	bar	psi	bar	psi	bar
0.473	12.00	0.039	1.00	3 989	275	5 620	388	4 170	288	8 793	606	4 369	301	7 524	519
0.473	12.00	0.059	1.50	5 983	413	8 430	581	6 255	431	13 190	909	6 554	452	11 286	778
0.473	12.00	0.079	2.00	7 977	550	11 241	775	8 340	575	17 586	1 213	8 739	603	15 048	1 038
0.500	12.70	0.035	0.89	3 354	231	4 726	326	3 507	242	7 394	510	3 674	253	6 327	436
0.500	12.70	0.036	0.91	3 430	236	4 833	333	3 585	247	7 561	521	3 757	259	6 469	446
0.500	12.70	0.048	1.22	4 598	317	6 479	447	4 807	331	10 136	699	5 037	347	8 673	598
0.500	12.70	0.049	1.24	4 673	322	6 585	454	4 886	337	10 302	710	5 119	353	8 815	608
0.500	12.70	0.064	1.63	6 143	424	8 656	597	6 422	443	13 543	934	6 729	464	11 588	799
0.500	12.70	0.065	1.65	6 218	429	8 762	604	6 501	448	13 709	945	6 812	470	11 730	809
0.500	12.70	0.080	2.03	7 651	527	10 780	743	7 998	551	16 866	1 163	8 381	578	14 432	995
0.500	12.70	0.083	2.11	7 952	548	11 205	773	8 314	573	17 531	1 209	8 711	601	15 001	1 034
0.552	14.00	0.039	1.00	3 419	236	4 817	332	3 574	246	7 537	520	3 745	258	6 449	445
0.552	14.00	0.059	1.50	5 128	354	7 226	498	5 361	370	11 305	779	5 618	387	9 674	667
0.552	14.00	0.079	2.00	6 838	471	9 635	664	7 148	493	15 074	1 039	7 490	516	12 898	889
0.586	14.88	0.125	3.18	10 229	705	14 413	994	10 694	737	22 550	1 555	11 205	773	19 295	1 330
0.591	15.00	0.039	1.00	3 191	220	4 496	310	3 336	230	7 034	485	3 495	241	6 019	415
0.591	15.00	0.059	1.50	4 786	330	6 744	465	5 004	345	10 552	728	5 243	362	9 029	623
0.591	15.00	0.079	2.00	6 382	440	8 992	620	6 672	460	14 069	970	6 991	482	12 038	830
0.626	15.88	0.048	1.22	3 677	254	5 181	357	3 844	265	8 106	559	4 028	278	6 936	478
0.626	15.88	0.049	1.24	3 737	258	5 266	363	3 907	269	8 239	568	4 094	282	7 050	486
0.626	15.88	0.064	1.63	4 913	339	6 923	477	5 136	354	10 831	747	5 382	371	9 268	639
0.626	15.88	0.065	1.65	4 973	343	7 008	483	5 199	358	10 964	756	5 448	376	9 381	647
0.630	16.00	0.039	1.00	2 991	206	4 215	291	3 127	216	6 595	455	3 277	226	5 643	389
0.630	16.00	0.059	1.50	4 487	309	6 323	436	4 691	323	9 892	682	4 915	339	8 464	584
0.630	16.00	0.079	2.00	5 983	413	8 430	581	6 255	431	13 190	909	6 554	452	11 286	778
0.630	16.00	0.099	2.50	7 479	516	10 538	727	7 819	539	16 487	1 137	8 192	565	14 107	973
0.630	16.00	0.118	3.00	8 974	619	12 646	872	9 382	647	19 784	1 364	9 831	678	16 929	1 167

## MAXIMUM WORKING PRESSURE AT AMBIENT TEMPERATURE

OD		WT		TP304L, TP316L, TP317L, 1.4307, 1.4435, 1.4438		S31254, 1.4547		N08904, 1.4539		S31803, S32205, 1.4462		N08825, 2.4858		N06625, 2.4856	
inch	mm	inch	mm	psi	bar	psi	bar	psi	bar	psi	bar	psi	bar	psi	bar
0.709	18.00	0.039	1.00	2 659	183	3 747	258	2 780	192	5 862	404	2 913	201	5 016	346
0.709	18.00	0.059	1.50	3 989	275	5 620	388	4 170	288	8 793	606	4 369	301	7 524	519
0.709	18.00	0.079	2.00	5 318	367	7 494	517	5 560	383	11 724	808	5 826	402	10 032	692
0.709	18.00	0.099	2.50	6 648	458	9 367	646	6 950	479	14 655	1 010	7 282	502	12 540	865
0.709	18.00	0.118	3.00	7 977	550	11 241	775	8 340	575	17 586	1 213	8 739	603	15 048	1 038
0.751	19.05	0.048	1.22	3 065	211	4 319	298	3 205	221	6 757	466	3 358	232	5 782	399
0.751	19.05	0.049	1.24	3 116	215	4 390	303	3 257	225	6 868	474	3 413	235	5 877	405
0.751	19.05	0.064	1.63	4 095	282	5 771	398	4 282	295	9 028	622	4 486	309	7 725	533
0.751	19.05	0.065	1.65	4 146	286	5 842	403	4 334	299	9 139	630	4 541	313	7 820	539
0.751	19.05	0.083	2.11	5 301	366	7 470	515	5 542	382	11 687	806	5 807	400	10 000	689
0.751	19.05	0.095	2.40	6 030	416	8 497	586	6 304	435	13 293	917	6 606	455	11 375	784
0.751	19.05	0.109	2.77	6 960	480	9 807	676	7 276	502	15 343	1 058	7 624	526	13 128	905
0.751	19.05	0.140	3.56	8 945	617	12 604	869	9 351	645	19 719	1 360	9 798	676	16 873	1 163
0.788	20.00	0.059	1.50	3 590	248	5 058	349	3 753	259	7 914	546	3 932	271	6 772	467
0.788	20.00	0.079	2.00	4 786	330	6 744	465	5 004	345	10 552	728	5 243	362	9 029	623
0.788	20.00	0.099	2.50	5 983	413	8 430	581	6 255	431	13 190	909	6 554	452	11 286	778
0.788	20.00	0.118	3.00	7 179	495	10 117	698	7 506	518	15 827	1 091	7 865	542	13 543	934
0.788	20.00	0.158	4.00	9 573	660	13 489	930	10 008	690	21 103	1 455	10 486	723	18 057	1 245
0.867	22.00	0.059	1.50	3 263	225	4 598	317	3 412	235	7 194	496	3 575	246	6 156	424
0.867	22.00	0.079	2.00	4 351	300	6 131	423	4 549	314	9 592	661	4 767	329	8 208	566
0.985	25.00	0.059	1.50	2 872	198	4 047	279	3 002	207	6 331	437	3 146	217	5 417	374
0.985	25.00	0.079	2.00	3 829	264	5 395	372	4 003	276	8 441	582	4 195	289	7 223	498
0.985	25.00	0.099	2.50	4 786	330	6 744	465	5 004	345	10 552	728	5 243	362	9 029	623
0.985	25.00	0.118	3.00	5 744	396	8 093	558	6 005	414	12 662	873	6 292	434	10 834	747
1.001	25.40	0.048	1.22	2 299	159	3 239	223	2 403	166	5 068	349	2 518	174	4 337	299
1.001	25.40	0.049	1.24	2 337	161	3 293	227	2 443	168	5 151	355	2 560	176	4 408	304
1.001	25.40	0.065	1.65	3 109	214	4 381	302	3 251	224	6 854	473	3 406	235	5 865	404
1.001	25.40	0.083	2.11	3 976	274	5 603	386	4 157	287	8 765	604	4 356	300	7 500	517
1.001	25.40	0.095	2.40	4 523	312	6 373	439	4 728	326	9 970	687	4 954	342	8 531	588
1.001	25.40	0.126	3.20	6 030	416	8 497	586	6 304	435	13 293	917	6 606	455	11 375	784

## MAXIMUM WORKING PRESSURE AT AMBIENT TEMPERATURE

OD		WT		TP304L, TP316L, TP317L, 1.4307, 1.4435, 1.4438	S31254, 1.4547	N08904, 1.4539	S31803, S32205, 1.4462	N08825, 2.4858	N06625, 2.4856						
inch	mm	inch	mm	psi	bar	psi	bar	psi	bar	psi	bar	psi	bar	psi	bar
1.182	30.00	0.063	1.60	2 553	176	3 597	248	2 669	184	5 628	388	2 796	193	4 815	332
1.182	30.00	0.099	2.50	3 989	275	5 620	388	4 170	288	8 793	606	4 369	301	7 524	519
1.182	30.00	0.118	3.00	4 786	330	6 744	465	5 004	345	10 552	728	5 243	362	9 029	623
1.182	30.00	0.158	4.00	6 382	440	8 992	620	6 672	460	14 069	970	6 991	482	12 038	830
1.251	31.75	0.126	3.20	4 824	333	6 797	469	5 043	348	10 635	733	5 284	364	9 100	627
1.379	35.00	0.079	2.00	2 735	189	3 854	266	2 859	197	6 030	416	2 996	207	5 159	356
1.379	35.00	0.099	2.50	3 419	236	4 817	332	3 574	246	7 537	520	3 745	258	6 449	445
1.379	35.00	0.118	3.00	4 103	283	5 781	399	4 289	296	9 044	624	4 494	310	7 739	534
1.497	38.00	0.079	2.00	2 519	174	3 550	245	2 634	182	5 554	383	2 760	190	4 752	328
1.497	38.00	0.118	3.00	3 779	261	5 324	367	3 950	272	8 330	574	4 139	285	7 128	491
1.497	38.00	0.158	4.00	5 038	347	7 099	489	5 267	363	11 107	766	5 519	381	9 504	655
1.497	38.00	0.197	5.00	6 298	434	8 874	612	6 584	454	13 884	957	6 899	476	11 880	819
1.655	42.00	0.079	2.00	2 279	157	3 212	221	2 383	164	5 025	346	2 497	172	4 299	296
1.655	42.00	0.118	3.00	3 419	236	4 817	332	3 574	246	7 537	520	3 745	258	6 449	445
1.970	50.00	0.158	4.00	3 829	264	5 395	372	4 003	276	8 441	582	4 195	289	7 223	498
1.970	50.00	0.197	5.00	4 786	330	6 744	465	5 004	345	10 552	728	5 243	362	9 029	623

Calculation is made by Formula  $P = \frac{2St}{D}$  with considering 75% of the yield strength for steel grade where,

$P$  = hydrostatic test pressure in psi [MPa],

$S$  = pipe wall stress in psi or [MPa],

$t$  = specified wall thickness, nominal wall thickness according to specified ANSI schedule number, or 1.143 times the specified minimum wall thickness, in. [mm],

$D$  = specified outside diameter, outside diameter corresponding to specified ANSI pipe size, or outside diameter calculated by adding  $2t$  (as defined above) to the specified inside diameter, in. [mm].

## ■ VALUE PROPOSITION

Hardness of HRB 80 for 304L/316L and HRB 90 for other austenitic grades	>	Ensuring quality of joints (tube material must be softer than the fitting material)
Surface roughness up to 0,8 Ra. Electropolishing upon customer request	>	Ensuring optimal flow characteristics
100% EC and UT inline	>	Ultimate quality assurance along the whole length of the tube
100% bright annealed	>	Smooth shiny surface, increased resistance to pitting corrosion
Electronic MTR service	>	Online access to MTR's at any time
Ability to deliver in flexible lengths. Wide range of lengths available	>	Customized lengths to meet customer specifications
Both ends plugged	>	Ensuring tube cleanliness
ISO 9001, 14001, 16949, 17025; OHSAS 18001 certifications	>	Integrated QMS approved according to ISO standards
Approved by Shell, Exxon-Mobil, Saudi Aramco, Norsok M-650, ADCO, ADMA-OPCO, ZADCO	>	Approved by key industry end-users

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Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +7(727) 34-54-704

Беларусь +(375) 257-127-88

Узбекистан +998(71)205-18-59

Киргизия +996(312)96-26-47

эл.почта: [cse@nt-rt.ru](mailto:cse@nt-rt.ru) || сайт: <https://tubecenter.nt-rt.ru/>