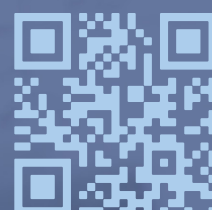




ATM  
ROSATOM

# CATALOGUE

Parts and assembly units  
for low-pressure pipelines  
of austenitic and pearlitic steels





**Joint Stock Company «ATM PIPING & FITTINGS» is one of the leading manufacturers and suppliers of high and low pressure pipelines for nuclear power plants. In addition, our company manufactures products for thermal power plants, as well as gas and petrochemical enterprises, the JSC «ATM» is part of the group of companies «Atomenergomash» of the Engineering Division of the State Corporation «ROSATOM».**

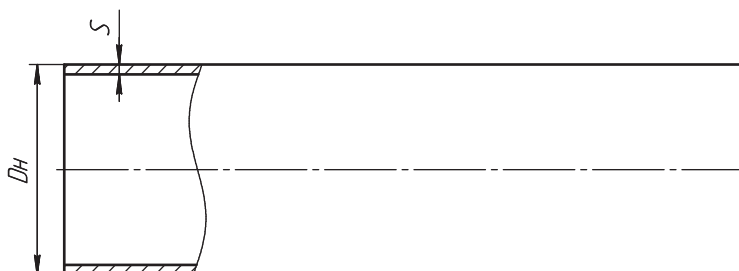
**The history of our company began in 2001 and already by 2008, the JSC «ATM» has established itself as a responsible and reliable manufacturer and supplier of parts and assembly units for pipelines for NPP and TPP. Currently, the production facilities of the JSC «ATM» are located in the city of Volgodonsk in the Rostov region.**

**Since 2013, the JSC «ATM» has been actively introducing the Rosatom Production System, which allows our company to manufacture high-quality and competitive products as soon as reasonably possible.**

**This catalogue includes parts and assembly units of low pressure pipelines of austenitic and pearlitic steel grades manufactured by the JSC «ATM» in accordance with industry standards, as well as non-standard pipeline parts according to drawings developed by the JSC «ATM». Designs of all non-standard parts are confirmed by strength calculations carried out by specialized institutions.**

## Pipes deliverable in lineal meters

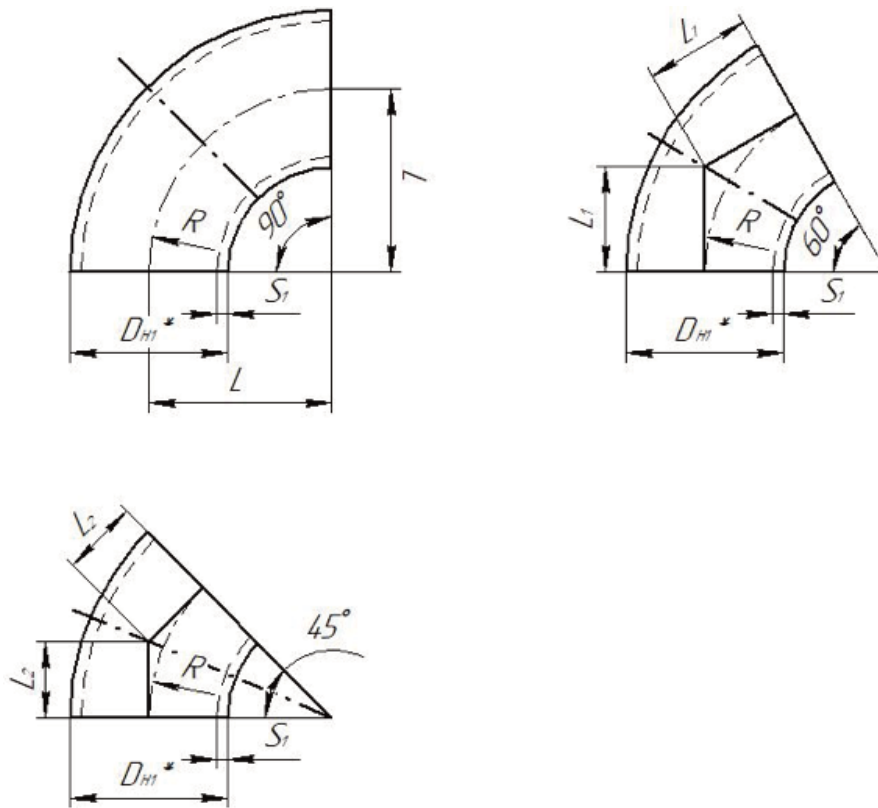
### OST 34-10-416-90, STO 79814898 109-2009



Nom. inside diam. Dn	Dimensions of pipes		Steel grade	TU for pipes procurement
	DH	S		
10	14	2	08X18H10T	TU 14-3P-197-01 GOST 9941-81
15	18	2,5		
20	25	3		
25	32	2,5		
32	38	3		
50	57	4,5		TU 14-3P-197-01 GOST 9940-81
65	76			
80	89	5		
100	108	6		GOST 9940-81
125	133			
150	159	11		TU 14-3P-197-01, GOST 9940-81
200	219	7		GOST 9941-81
	220	11		TU 14-3P-197-01 GOST 9940-81
250	273	12		TU 95.349-91
300	325	6		
350	377	8		
400	426			
500	530	12		
600	630	10		
700	720			
800	820			
900	920			
1000	1020			
1200	1220			

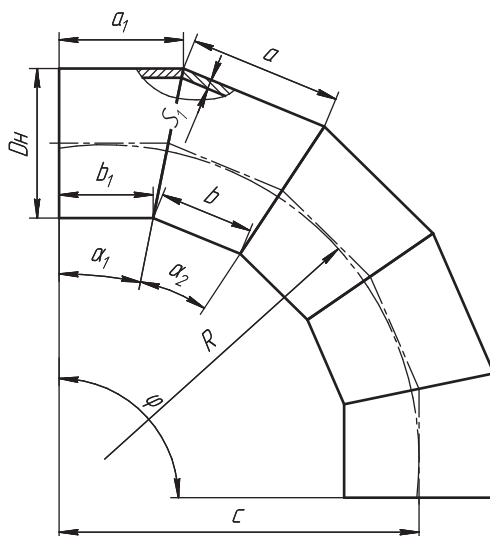
Note: The pipes not specified in the assortment of OST 34-10-416-90 and STO 79814898 109-2009 are supplied in accordance with dimensions specified in TU 14-3P-197-2001, TU 95.349-91, GOST 9940-81, GOST 9941-81

## Sharply curved bends (elbows) OST 34-10-418-90, STO 79814898 111-2009



Indexing	Nominal inside diameter D <sub>n</sub>	Dimension of connecting pipes	D <sub>H</sub>	S <sub>1</sub>	R	Bending angle 90°		Bending angle 60°		Bending angle 45°		Steel grade
						L	Weight, kg	L <sub>1</sub>	Weight, kg	L <sub>2</sub>	Weight, kg	
OST 34-10-418-90 STO 79814898 111-2009	50	57x3	57	3	100	100	0,6	58	0,4	41	0,3	08X18H 10T 12X18H 10T
				5			1,0		0,7		0,5	
	65	76x4,5	76	4,5	105	105	1,3	61	0,9	43	0,7	
				6			1,7		1,1		0,8	
	80	89x5	89	5	160	160	2,6	92	1,7	66	1,3	
				6			3,1		2,0		1,6	
	100	108x5	108	5	150	150	3,0	87	2,0	62	1,5	
				6			3,6		2,4		1,8	

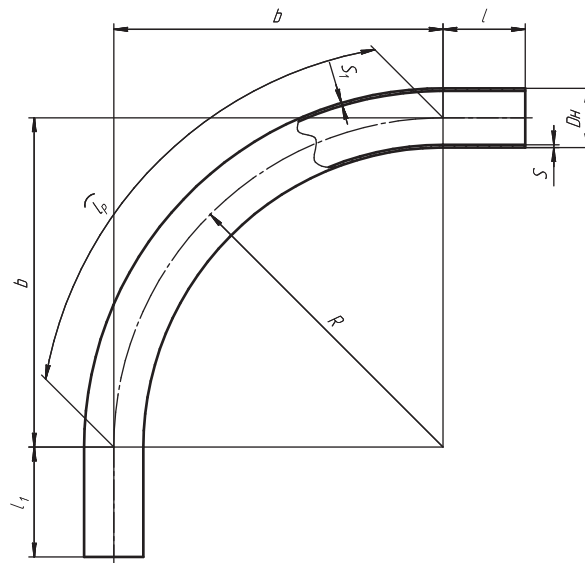
## Welded bends (elbows) according to OST 34-10-419-90, STO 79814898 112-20



Modification	Nominal inside diam. Dn	Dim. of connect. pipes	DH	S <sub>1</sub>	R	α <sub>1</sub>	α <sub>2</sub>	φ	a	a <sub>1</sub>	b	b <sub>1</sub>	c	Steel grade	Weight, kg		
Elbows with the angle of bending α 30°																	
01	125	133x6	133	6	255	15°	-	150°	-	136	-	100	118	08X18H10T1 2X18H10T	4,5		
02	150	159x6	159		270					142					121	5,8	
03	200	219x11	219	11	295					159					129	14,4	
04		220x7	220	7											9,3		
05	250	273x11	273	11	410					198					125	160	23,5
06	300	325x12	325	12	490					225					138	181	35,0
Elbows with the angle of bending α 45°																	
07	125	133x6	133	6	320	11° 15'	22° 30'	135°	154	127	100	100	182	08X18H10T1 2X18H10T	7,1		
08	150	159x6	159		330				163	131			187		8,5		
09	200	219x11	219	11	360				187	143			199		23,1		
10		220x7	220	7						14,8							
11	250	273x11	273	11	410				218	160			110		106	220	31,4
12	300	325x12	325	12	490				260	180			130		115	253	47,7
Elbows with the angle of bending α 60°																	
13	125	133x6	133	6	255	15°	30°	120°	172	136	100	100	197	08X18H10T1 2X18H10T	7,3		
14	150	159x6	159		270				187	142			206		9,2		
15	200	219x11	219	11	295				217	159			220		25,3		
16		220x7	220	7						15,9							
17	250	273x11	273	11	410				293	196			147		123	287	40,0
18	300	325x12	325	12	490				350	225			176		138	333	60,5
Elbows with the angle of bending α 90°																	
19	125	133x6	133	6	320	11° 15'	22° 30'	90°	154	127	100	100	370	08X18H10T1 2X18H10T	12,1		
20	150	159x6	159		330				163	131			380		14,8		
21	200	219x11	219	11	360				187	143			410		40,6		
22		220x7	220	7						25,9							
23	250	273x11	273	11	410				218	160			110		106	460	56,6
24	300	325x12	325	12	490				260	180			130		115	540	86,0

Modifi- cation	Nominal inside diam. Dn	Dim. of connect. pipes	Dn	S <sub>1</sub>	R	α <sub>1</sub>	α <sub>2</sub>	φ	α	α <sub>1</sub>	b	b <sub>1</sub>	c	Steel grade	Weight, kg
Elbows with the angle of bending α 30°															
25	350	377x6	377	6	570	15°	-	150°	-	206	-	105	156	08X18H10T1 2X18H10T	17,3
26	400	426x8	426	8	640					230		116	173		
27	500	530x8	530		800					286		144	215		
28	600	630x8	630	12	950					344		175	260		
29		630x12													97,4
30	700	720x10	720	10	1080					388		195	292		104,4
31	800	820x10	820		1230					440		220	330		133,8
32	900	920x10	920		1380					494		248	370		167,9
33	1000	1020x10	1020		1530					548		275	410		207,2
34	1200	1220x10	1220		1830					655		328	490		297,6
						328	490								
Elbows with the angle of bending α 45°															
35	350	377x6	377	6	570	11° 15'	22° 30'	135°	302	200	152	126	286	08X18H10T1 2X18H10T	31,4
36	400	426x8	426	8	640				340	220	170	135	315		
37	500	530x8	530		800				424	215	214	110	331		
38	600	630x8	630	12	950				504	255	254	130	393		
39		630x12													144,5
40	700	720x10	720	10	1080				574	290	286	145	447		155,4
41	800	820x10	820		1230				652	328	326	165	509		200,7
42	900	920x10	920		1380				732	368	366	185	572		252,9
43	1000	1020x10	1020		1530				812	408	406	205	634		310,2
44	1200	1220x10	1220		1830				972	488	486	245	758		442,4
						972	488	486						245	
Elbows with the angle of bending α 60°															
45	350	377x6	377	6	570	15°	30°	120°	406	206	204	105	379	08X18H10T1 2X18H10T	34,6
46	400	426x8	426	8	640				458	230	230	116	420		
47	500	530x8	530		800				572	286	288	144	462		
48	600	630x8	630	12	950				678	344	340	175	548		
49		630x12													128,2
50	700	720x10	720	10	1080				772	388	386	195	624		207,9
51	800	820x10	820		1230				880	440	440	220	710		267,5
52	900	920x10	920		1380				986	494	494	248	797		337,7
53	1000	1020x10	1020		1530				1094	548	548	275	883		415,5
54	1200	1220x10	1220		1830				1308	655	654	328	1057		597,6
						1308	655	654						328	
Elbows with the angle of bending α 90°															
55	350	377x6	377	6	570	11° 15'	22° 30'	90°	302	200	152	126	620	08X18H10T1 2X18H10T	44,8
56	400	426x8	426	8	640				340	220	170	135	690		
57	500	530x8	530		800				424	215	214	110	800		
58	600	630x8	630	12	950				504	255	254	130	950		
59	600	630x12	630												950
60	700	720x10	720	10	1080				574	290	286	146	1080		309,3
61	800	820x10	820		1230				652	328	326	165	1230		400,6
62	900	920x10	920		1380				732	368	366	185	1380		504,9
63	1000	1020x10	1020		1530				812	408	406	205	1530		619,7
64	1200	1220x10	1220		1830				972	488	486	245	1830		885,0
						972	488	486						245	

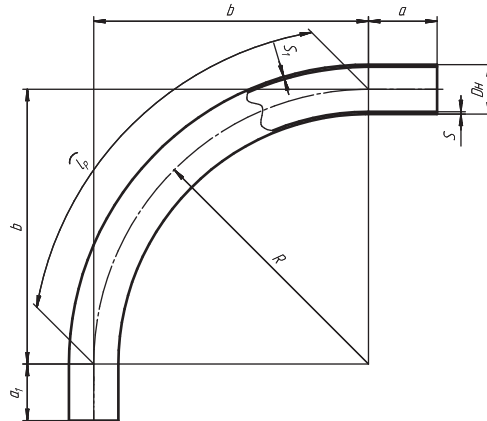
## Curved bends (elbows) according to OST 34-10-420-90, STO 79814898 113-2009



Indexing	Nom. inside diam. Dn	D <sub>H</sub> xS	R	D <sub>p</sub>	s <sub>1</sub> not less than	Length of straight pipe segment not less than		Angles of bending φ										Steel grade
						l	l <sub>1</sub>	15°		30°		45°		60°		90°		
								lp	b	lp	b	lp	b	lp	b	lp	b	
OST 34-10-420-90 STO 79814898 113-2009	10	14x2	100	10,5	1,5	100	100	26	13	52	27	78	41	105	58	157	100	08X18H10T 12X18H10T
	15	18x2,5		13,5	2													
	20	25x3		19,5	2,5													
	25	32x2,5		28	2													
	32	38x3	150	33	2,5	150	150	39	20	79	40	118	62	157	87	236	150	
	50	57x3	300	52														
	65	76x4,5	400	68	3,5	200	150	79	40	157	80	236	124	314	173	471	300	
	80	89x5		80														
	100	108x5	600	99	4	500	500	105	53	210	107	314	166	419	231	628	400	
	125	133x6		124														
	150	159x6	650	150	7,5	500	500	170	86	340	174	510	269	680	375	1021	650	
	200	219x11	1000	200														
		219x11		209	4													
	250	273x11	1370	255	6,5	600	600	262	132	524	268	785	414	1047	577	1570	1000	
300	325x12	305		7														
						700	359	180	717	367	1076	568	1435	791	2152	1370		

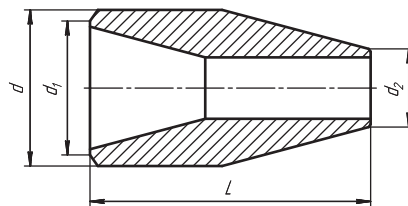


## Sharply curved bends (elbows) according to OST 34-10-421-90, STO 79814898 114-2009



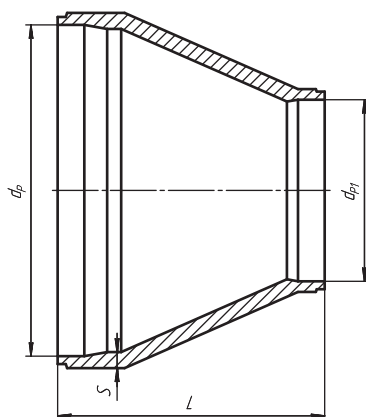
Indexing	Nom. inside diam. Dn	D <sub>H</sub> ×S	R	D <sub>p</sub>	S <sub>1</sub>	a	a <sub>1</sub>	a <sub>2</sub>	Steel grade
						not less than			
OST 34-10-421-90 STO 79814898 114-2009	65	76×4,5	200	68	3,5	200	600	200	08X18H10T 12X18H10T
	80	89×5	250	80	4	250		250	
	100	108×5		99		350		300	
	125	133×6	124	350					
	150	159×6	400	150	7,5	400	700	400	
	200	219×11	500	200			5		
		220×7		209					
	250	273×11	750	255	6,5	500	800	500	
300	325×12	900	305	7	600	1000	600		

## Turned reducers / increasers according to OST 34-10-423-90, STO 79814898 116-2009



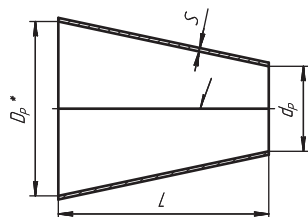
Indexing	Nom. inside diam.		Dimensions of connect. pipes		Dim. of reducer, mm			Steel grade	Weight, kg
	Dn	Dn <sub>1</sub>			d	d <sub>1</sub>	L		
01	15	10	18x2,5	14x2	20	18	60	08X18H10T 12X18H10T	0,10
02	20				25x3	18x2,5			28
03		0,19							
04	25	10	32x2,5	18x2,5	36	32			0,28
05									0,29
06									0,30
07	32	15	38x3	18x2,5	40	38			0,33
08									0,36
09									0,29
10	50	20	57x3	25x3	60	57			1,24
11									1,25
12									1,25
13	50	32	57x3	38x3	60	57			100

## Seamless reducers / increasers according to OST 34-10-422-90, STO 79814898 115-2009



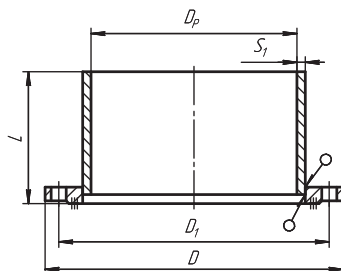
Indexing	Nom. inside diam.		Dimensions of connecting pipes		Dimensions of reducer, mm				Steel grade	Weight, kg	
	Dn	Dn <sub>1</sub>			dp	dp <sub>1</sub>	S	L			
01	65	32	76x4,5	68	33	4,5	70	08X18H10T 12X18H10T	0,56		
02		50			52				0,78		
03	80	65	89x5	80	69	5	75		0,78		
04					57x3				52	1,15	
05	100	50	108x5	99	52	90	1,15				
06		65			68		1,89				
07		80			80		1,89				
08	125	65	133x6	124	68	100	1,89				
09		80			80		2,96				
10		100			99		2,96				
11	150	65	159x6	150	68	6	130		2,96		
12		80			80				7,95		
13		100			99				7,95		
14		125			124				7,95		
15	200	100	219x11	200	99	11	140		7,95		
16		125			124				5,18		
17		150			150				5,18		
18		100			99				5,18		
19	250	125	220x7	209	124	7	180		5,18		
20		150			150				12,87		
21		125			133x6				124	12,87	
22		150			159x6				150	12,87	
23	300	200	273x11	255	200	11	180		12,87		
24					220x7				209	16,77	
25					150				159x6	150	16,77
26					200				219x11	200	16,77
27	300	200	325x12	305	209	12	180		16,77		
28					250				273x11	255	16,77

## Welded reducers / increasers of sheet metal OST 34-10-424-90, STO 79814898 117-2009



Indexing	Nominal inside diam.		Dimensions of connecting pipes		Dimensions of reducer, mm				Steel grade	Weight, kg	
	Dn	dn			Dp	dp	S	L			
01	350	250	377x6	273x11	367	255	6	200	08X18H10T	9,90	
02		300		325x12		305				10,26	
03			400	426x8	377x6	367				13,43	
04	350	377x6			367	15,08					
05	500	250	530x8	273x11	255	8				633	50,39
06		300		325x12	305					515	43,70
07		350		377x6	367		360	32,93			
08		400		426x8	412		254	24,45			
09	600	300	630x8	325x12	305	616	750	71,34			
10		350		377x6	367		595	60,59			
11		400		426x8	412		489	52,09			
12		500		530x8	516		245	28,60			
13	600	300	630x12	325x12	305	608	736	105,39			
14		350		377x6	367		581	89,18			
15		400		426x8	412		475	76,08			
16		500		530x8	516		230	40,54			
17	700	350	720x10	377x6	367	703	802	111,84			
18		400		426x8	412		696	110,72			
19		500		530x8	516		452	71,35			
20		600		630x8	616		215	36,95			
21	630x12		608	240	40,54						
22	400		426x8	412	931	145,76					
23	800	500	820x10	530x8	516	803	687	117,34			
24		600		630x8	616		452	63,00			
25		700		630x12	608		475	86,27			
26				720x10	703		254	49,42			
27	900	500	920x10	530x8	516	903	922	169,21			
28		600		630x8	616		687	134,76			
29				630x12	608		710	138,24			
30		700		720x10	703		489	101,19			
31	1000	800	1020x10	820x10	803	1003	254	55,82			
32		500		530x8	516		1157	227,26			
33		600		630x8	616		922	192,91			
34				630x12	608		945	196,45			
35	700	720x10	703	724	159,34						
36	800	820x10	803	489	113,97						
37	900	920x10	903	254	62,42						
38	1200	600	1220x10	630x8	616	1203	1392	326,89			
39				630x12	608		1416	330,01			
40		700		720x10	703		1195	293,27			
41		800		820x10	803		960	247,90			
42		900		920x10	903		724	196,34			
43	1000	1020x10	1003	489	138,97						

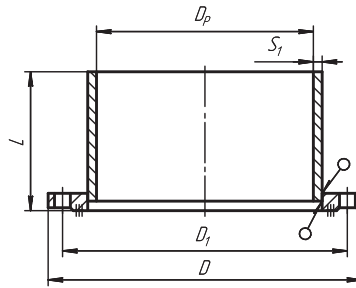
## Plate flanges for welding



Indexing	Nom. inside diam. Dn	D	D <sub>1</sub>	D <sub>p</sub>	S <sub>1</sub>	L	Steel grade	Weight, kg	
01 OST 34-10-425-90	10	75	50	10,5	1,5	153	08X18H10T 12X18H10T	0,35	
02 OST 34-10-425-90	15	80	55	13,5	2	154		0,44	
03 OST 34-10-425-90	20	90	65	19,5	2,5			0,72	
04 OST 34-10-425-90	25	100	75	28	2			0,84	
05 OST 34-10-425-90	32	120	90	33	2,5			1,22	
06 OST 34-10-425-90	50	140	110	52				1,70	
07 OST 34-10-425-90	65	160	130	68	3,5	156		2,69	
08 OST 34-10-425-90	80	185	150	80	4			3,53	
09 OST 34-10-425-90	100	205	170	99		157		4,23	
10 OST 34-10-425-90	125	235	200	124				5,70	
11 OST 34-10-425-90	150	260	225	150	7,5	162		7,17	
12 OST 34-10-425-90	200	315	280	200				14,85	
13 OST 34-10-425-90	250	370	335	255	5	158		10,81	
14 OST 34-10-425-90	300	435	395	305	6,5	262		26,84	
15 OST 34-10-425-90	350	485	445	367	7	263		34,62	
16 OST 34-10-425-90	400	535	495	412	4,5	257		25,04	
17 OST 34-10-425-90	500	640	600	516	5,5	259		33,74	
18 OST 34-10-425-90	600	755	705	616	6,5	309		48,97	
19 OST 34-10-425-90	700	860	810	703				60,77	
20 OST 34-10-425-90	800	975	920	803	9,5	313		80,41	
21 OST 34-10-425-90	900	1075	1020	903	8			85,74	
22 OST 34-10-425-90	1000	1175	1120	1003	7	311		101,25	
23 OST 34-10-425-90	1200	1375	1320	1203				116,76	
24 OST 34-10-425-90	10	75	50	10,5	7,5	153		133,21	
25 OST 34-10-425-90	15	80	55	13,5	8			0,41	
26 OST 34-10-425-90	20	90	65	19,5	1,5	154		0,49	
27 OST 34-10-425-90	25	100	75	28	2			0,80	
28 OST 34-10-425-90	32	120	90	33	2,5			0,93	
29 OST 34-10-425-90	50	140	110	52	3,5			156	1,43
30 OST 34-10-425-90	65	160	130	68					1,99
31 OST 34-10-425-90	80	185	150	80	4	157		2,93	
32 OST 34-10-425-90	100	205	170	99				4,14	
33 OST 34-10-425-90	125	235	200	124				4,94	
34 OST 34-10-425-90	150	260	225	150	7,5	162		6,98	
35 OST 34-10-425-90	200	315	280	200				8,14	
36 OST 34-10-425-90	250	370	335	255	9,5	313		16,04	
37 OST 34-10-425-90	300	435	395	305	5			158	12,01
38 OST 34-10-425-90	350	485	445	367	6,5	262		27,57	
39 OST 34-10-425-90	400	535	495	412	7	263		35,58	
40 OST 34-10-425-90	500	640	600	516	4,5	257		27,24	
41 OST 34-10-425-90	600	755	705	616	5,5	259		37,33	
42 OST 34-10-425-90	700	860	810	703	6,5	309		52,72	
43 OST 34-10-425-90	800	975	920	803	9,5	313		65,71	
44 OST 34-10-425-90	900	1075	1020	903	8			83,52	
45 OST 34-10-425-90	1000	1175	1120	1003	7	311		93,35	
46 OST 34-10-425-90	10	75	50	10,5	8			110,86	
47 OST 34-10-425-90	15	80	55	13,5	7			127,77	
48 OST 34-10-425-90	20	90	65	19,5	7,5	153		145,10	
49 OST 34-10-425-90	25	100	75	28	2			0,93	

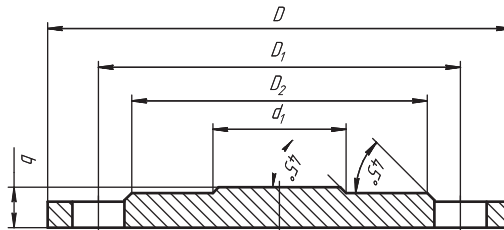
Indexing	Nom. inside diam. Dn	D	D1	Dp	S <sub>1</sub>	L	Steel grade	Weight, kg	
50 OST 34-10-425-90	10	90	60	10,5	1,5	153	08X18H10T 12X18H10T	0,56	
51 OST 34-10-425-90	15	95	65	13,5	2	154		0,66	
52 OST 34-10-425-90	20	105	75	19,5	2,5			1,01	
53 OST 34-10-425-90	25	115	85	28	2			1,19	
54 OST 34-10-425-90	32	135	100	33	2,5			1,82	
55 OST 34-10-425-90	50	160	125	52				2,73	
56 OST 34-10-425-90	65	180	145	68	3,5			156	4,11
57 OST 34-10-425-90	80	195	160	80	4			156	5,07
58 OST 34-10-425-90	100	215	180	99					6,06
59 OST 34-10-425-90	125	245	210	124				157	8,53
60 OST 34-10-425-90	150	280	240	150					10,39
61 OST 34-10-425-90	200	335	295	200	7,5	162		18,22	
62 OST 34-10-425-90				209	5	158		14,18	
63 OST 34-10-425-90	250	390	350	255	6,5	262		30,54	
64 OST 34-10-425-90	300	440	400	305	7	263		38,23	
65 OST 34-10-425-90	350	500	460	367	4,5	257		30,49	
66 OST 34-10-425-90	400	565	515	412	5,5	259		43,75	
67 OST 34-10-425-90	500	670	620	516	6,5	309		60,78	
68 OST 34-10-425-90	600	780	725	616				79,00	
69 OST 34-10-425-90				608	9,5	313		98,64	
70 OST 34-10-425-90	10	90	60	10,5	1,5	153		0,64	
71 OST 34-10-425-90	15	95	65	13,5	2	154		0,77	
72 OST 34-10-425-90	20	105	75	19,5	2,5			1,14	
73 OST 34-10-425-90	25	115	85	28	2			1,47	
74 OST 34-10-425-90	32	135	100	33	2,5			2,00	
75 OST 34-10-425-90	50	160	125	52				3,25	
76 OST 34-10-425-90	65	180	145	68	3,5			156	4,74
77 OST 34-10-425-90	80	195	160	80	5,43				
78 OST 34-10-425-90	100	215	180	99	4			157	6,85
79 OST 34-10-425-90	125	245	210	124					9,52
80 OST 34-10-425-90	150	280	240	150				309	11,61
81 OST 34-10-425-90	200	335	295	200		7,5			162
82 OST 34-10-425-90				209	4	158		16,25	
83 OST 34-10-425-90	250	405	355	255	6,5	262		34,45	
84 OST 34-10-425-90	300	460	410	305	7	263		43,16	
85 OST 34-10-425-90	350	520	470	367	4	257		37,60	
86 OST 34-10-425-90	400	580	525	412	6	259		53,29	
87 OST 34-10-425-90	500	710	650	516	5,5	309		90,38	
88 OST 34-10-425-90	600	840	770	616				120,31	
89 OST 34-10-425-90				608	9,5	313		139,95	
90 OST 34-10-425-90	10	90	60	10,5	1,5	153		0,74	
91 OST 34-10-425-90	15	95	65	13,5	2	154		0,86	
92 OST 34-10-425-90	20	105	75	19,5	2,5			1,26	
93 OST 34-10-425-90	25	115	85	28	2			1,47	
94 OST 34-10-425-90	32	135	100	33	2,5			2,19	
95 OST 34-10-425-90	50	160	125	52				3,38	
96 OST 34-10-425-90	65	180	145	68	3,5			156	4,53
97 OST 34-10-425-90	80	195	160	80	5,78				
98 OST 34-10-425-90	100	230	190	99	4			157	8,05
99 OST 34-10-425-90	125	270	220	124					11,42
100 OST 34-10-425-90	150	300	250	150				309	13,94
101 OST 34-10-425-90	200	360	310	200		7,5			162
102 OST 34-10-425-90				209	5	158		19,52	
103 OST 34-10-425-90	250	425	370	255	6,5	262		38,92	
104 OST 34-10-425-90	300	485	430	305	7	263		49,40	
105 OST 34-10-425-90	350	550	490	367	4,5	257		49,18	
106 OST 34-10-425-90	400	610	550	412	5,5	259		67,05	
107 OST 34-10-425-90	500	730	660	516	6,5	309		100,77	

## Ribbed plate flanges for welding



Indexing	Nom. inside diam. Dn	D	D <sub>1</sub>	D <sub>p</sub>	S <sub>1</sub>	L	Steel grade	Weight, kg
01 OST 34-10-426-90	1200	1400	1340	1203	7,5	311	08X18H10T 12X18H10T	225,3
02 OST 34-10-426-90	700	895	840	703	8			117,8
03 OST 34-10-426-90	800	1010	950	803	8			149,4
04 OST 34-10-426-90	900	1110	1050	903	7			166,9
05 OST 34-10-426-90	1000	1220	1160	1003	7,5			200,5
06 OST 34-10-426-90	700	910	840	703	8			165,8
07 OST 34-10-426-90	800	1020	950	803	8			190,2
08 OST 34-10-426-90	600	840	770	608	9,5			313

## Raised face flanged end caps



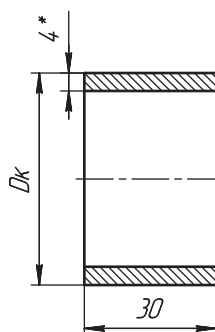
Indexing	Nom. inside diam. Dn	D	D <sub>1</sub>	D <sub>2</sub>	d <sub>1</sub>	b	Steel grade	Weight, kg
01 OST 34-10-428-90	10	75	50	35	6	10	08X18H10T 12X18H10T	0,20
02 OST 34-10-428-90	15	80	55	40	10			0,24
03 OST 34-10-428-90	20	90	65	50	16			0,31
04 OST 34-10-428-90	25	100	75	60	22			0,40
05 OST 34-10-428-90	32	120	90	70	28			0,57
06 OST 34-10-428-90	50	140	110	90	46	12		0,99
07 OST 34-10-428-90	65	160	130	110	60			1,24
08 OST 34-10-428-90	80	185	150	128	76			1,79
09 OST 34-10-428-90	100	205	170	148	94	14		2,26
10 OST 34-10-428-90	125	235	200	178	118			3,67
11 OST 34-10-428-90	150	260	225	202	142			4,61
12 OST 34-10-428-90	200	315	280	258	196			7,07
13 OST 34-10-428-90	250	370	335	312	244			9,93
14 OST 34-10-428-90	300	435	395	365	294	16		15,03
15 OST 34-10-428-90	350	485	445	415	344			19,14

Indexing	Nom. inside diam. Dn	D	D <sub>1</sub>	D <sub>2</sub>	d <sub>1</sub>	b	Steel grade	Weight, kg	
16 OST 34-10-428-90	400	535	495	465	390	18	08X18H10T 12X18H10T	27,02	
17 OST 34-10-428-90	500	640	600	570	490	20		44,72	
18 OST 34-10-428-90	600	755	705	670	590	25		76,14	
19 OST 34-10-428-90	700	860	810	775	680	26		105,92	
20 OST 34-10-428-90	800	975	920	880	780	30		159,75	
21 OST 34-10-428-90	900	1075	1020	980	880	32		210,37	
22 OST 34-10-428-90	1000	1175	1120	1080	980	34		270,78	
23 OST 34-10-428-90	1200	1375	1320	1280	1180	36		396,67	
24 OST 34-10-428-90	10	75	50	35	6	12		0,26	
25 OST 34-10-428-90	15	80	55	40	10			0,31	
26 OST 34-10-428-90	20	90	65	50	16			0,40	
27 OST 34-10-428-90	25	100	75	60	22			0,51	
28 OST 34-10-428-90	32	120	90	70	28			0,74	
29 OST 34-10-428-90	50	140	110	90	46	14		1,22	
30 OST 34-10-428-90	65	160	130	110	60			1,55	
31 OST 34-10-428-90	80	185	150	128	76			2,19	
32 OST 34-10-428-90	100	205	170	148	94			2,77	
33 OST 34-10-428-90	125	235	200	178	118	16		4,33	
34 OST 34-10-428-90	150	260	225	202	142			5,41	
35 OST 34-10-428-90	200	315	280	258	196			8,27	
36 OST 34-10-428-90	250	370	335	312	244			11,58	
37 OST 34-10-428-90	300	435	395	365	294	18		17,29	
38 OST 34-10-428-90	350	485	445	415	344	20		24,98	
39 OST 34-10-428-90	400	535	495	465	390	22		34,00	
40 OST 34-10-428-90	500	640	600	570	490	26		59,73	
41 OST 34-10-428-90	600	755	705	670	590	30		94,79	
42 OST 34-10-428-90	700	860	810	775	680	36		150,93	
43 OST 34-10-428-90	800	975	920	880	780	40		217,98	
44 OST 34-10-428-90	900	1075	1020	980	880	45		300,00	
45 OST 34-10-428-90	1000	1175	1120	1080	980	48		378,42	
46 OST 34-10-428-90	1200	1400	1340	1295	1180	60		687,91	
47 OST 34-10-428-90	10	90	60	40	6	12		0,38	
48 OST 34-10-428-90	15	95	65	45	10			0,43	
49 OST 34-10-428-90	20	105	75	58	16			0,55	
50 OST 34-10-428-90	25	115	85	68	22			0,67	
51 OST 34-10-428-90	32	135	100	78	28			0,92	
52 OST 34-10-428-90	50	160	125	102	46	14		1,56	
53 OST 34-10-428-90	65	180	145	122	60			2,05	
54 OST 34-10-428-90	80	195	160	138	76			2,46	
55 OST 34-10-428-90	100	215	180	158	94			2,99	
56 OST 34-10-428-90	125	245	210	188	118	16		4,72	
57 OST 34-10-428-90	150	280	240	212	142			6,11	
58 OST 34-10-428-90	200	335	295	268	196			18	10,53
59 OST 34-10-428-90	250	390	350	320	244			20	16,23

Indexing	Nom. inside diam. Dn	D	D <sub>1</sub>	D <sub>2</sub>	d <sub>1</sub>	b	Steel grade	Weight, kg
60 OST 34-10-428-90	300	440	400	370	294	25	08X18H10T 12X18H10T	25,98
61 OST 34-10-428-90	350	500	460	430	344	26		35,22
62 OST 34-10-428-90	400	565	515	482	390	30		52,58
63 OST 34-10-428-90	500	670	620	585	490	36		91,39
64 OST 34-10-428-90	600	780	725	685	590	40		142,54
65 OST 34-10-428-90	700	895	840	800	680	48		228,70
66 OST 34-10-428-90	800	1010	950	905	780	50		306,49
67 OST 34-10-428-90	900	1110	1050	1005	880	60		432,40
68 OST 34-10-428-90	1000	1220	1160	1110	980	65		570,03
69 OST 34-10-428-90	10	90	60	40	6	12		0,38
70 OST 34-10-428-90	15	95	65	45	10			0,43
71 OST 34-10-428-90	20	105	75	58	16			0,55
72 OST 34-10-428-90	25	115	85	68	22			0,67
73 OST 34-10-428-90	32	135	100	78	28			0,92
74 OST 34-10-428-90	50	160	125	102	46	14		1,56
75 OST 34-10-428-90	65	180	145	122	60			2,05
76 OST 34-10-428-90	80	195	160	138	76			2,46
77 OST 34-10-428-90	100	215	180	158	94	16		3,53
78 OST 34-10-428-90	125	245	210	188	118			4,72
79 OST 34-10-428-90	150	280	240	212	142	18		7,03
80 OST 34-10-428-90	200	335	295	268	196	22		12,94
81 OST 34-10-428-90	250	405	355	320	244	26		21,88
82 OST 34-10-428-90	300	460	410	378	294	30		32,38
83 OST 34-10-428-90	350	520	470	438	344	34		47,83
84 OST 34-10-428-90	400	580	525	490	390	38		68,54
85 OST 34-10-428-90	500	710	650	610	490	45		118,89
86 OST 34-10-428-90	600	840	770	720	590	55		206,51
87 OST 34-10-428-90	700	910	840	790	680	60		285,08
88 OST 34-10-428-90	800	1020	950	900	780	65		378,14
89 OST 34-10-428-90	10	90	60	40	6	12		0,38
90 OST 34-10-428-90	15	95	65	45	10			0,43
91 OST 34-10-428-90	20	105	75	58	16			0,55
92 OST 34-10-428-90	25	115	85	68	22			0,67
93 OST 34-10-428-90	32	135	100	78	28			0,92
94 OST 34-10-428-90	50	160	125	102	46	14		1,56
95 OST 34-10-428-90	65	180	145	122	60	16		2,30
96 OST 34-10-428-90	80	195	160	138	76	18		3,23
97 OST 34-10-428-90	100	230	190	162	94	20		5,10
98 OST 34-10-428-90	125	270	220	188	118	22		7,88
99 OST 34-10-428-90	150	300	250	218	142	25		11,58
100 OST 34-10-428-90	200	360	310	278	196	28		19,22
101 OST 34-10-428-90	250	425	370	335	244	34		33,57
102 OST 34-10-428-90	300	485	430	390	294	38		48,07
103 OST 34-10-428-90	350	550	490	450	344	45		74,93
104 OST 34-10-428-90	400	610	550	505	390	48		99,98
105 OST 34-10-428-90	500	730	660	615	490	60		180,54
106 OST 34-10-428-90	600	840	770	720	590	50		195,74



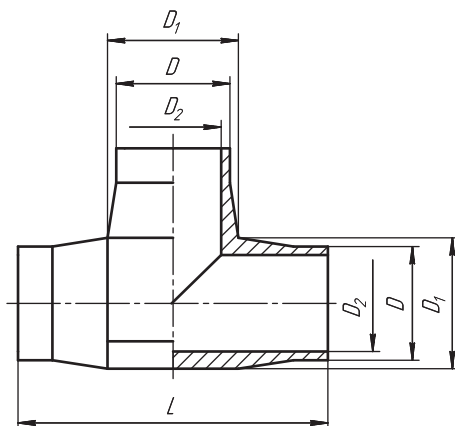
## Backing rings OST 34-10-431-90, STO 79814898 118-2009



Indexing	Nominal inside diameter $D_n$		$D_k$	Steel grade	Weight, kg
	Nozzle $D_{n_1}$	Main pipeline $D_n$			
01	80	350-900	79	08X18H10T	0,2
02		1000, 1200			
03	100	350-700	98		0,5
04		800-1200			0,3
05	125	350-500	121		0,4
06		600-1200			0,3
07	150	350, 400	147		0,5
08		500			
09		600-1200			
10	200	400	197		0,8
11		500			
12		600-700			
13		800-1200			
14	250	400	251		1,2
15		500			1,1
16		600-700			1,0
17		800-900			0,9
18		1000-1200			0,8
19	300	800	301		1,3
20		900-1000			1,2
21		1200			
22	350	800	365		1,8
23		900			1,7
24		1000			1,6
25		1200			1,5
26	400	1000	410		2,0
27		1200			1,9
28	500	1200	514		2,9

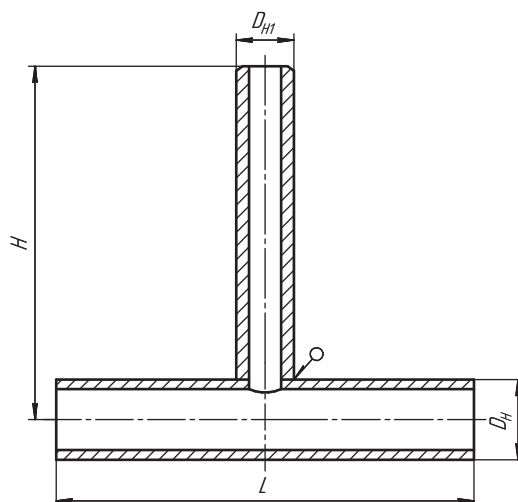
## Drilled equal tees

### OST 34-10-432-90, STO 79814898 120-2009



Indexing	Nom. inside diam. Dn	Dim. of connect. pipes	D	D <sub>1</sub>	D <sub>2</sub>	L	Steel grade	Weight, kg
01	10	14x2	14	20	10,5	60	08X18H10T 12X18H10T	0,08
02	15	18x2,5	18	24	13,5			0,09
03	20	25x3	25	30	19,5	70		0,13
04	25	32x2,5	33	38	28	90		0,21
05	32	38x3	39	45	33	100		0,45

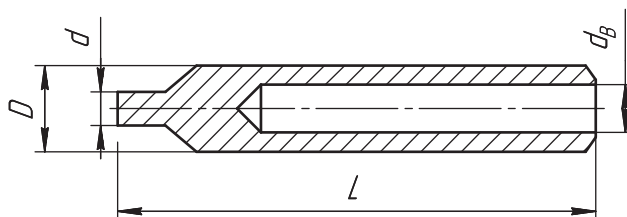
## Unequal tees with reinforced nozzles OST 34-10-433-90, STO 79814898 121-2009



Indexing	Nom. inside diam. DnXDn <sub>1</sub>		Dim. of connect. pipes		D <sub>H</sub>	D <sub>H1</sub>	D <sub>p</sub>	d	L	H	Steel grade	Weight, kg		
			to the body	to the nozzle										
01	15	10	18x2,5	14x2	18	14	13,5	7	130	105	08X18H10T 12X18H10T	0,27		
02	20		25x3		25							19,5	110	0,36
03	15	32x2,5	18x2,5	32	18	28	10	150	112	0,42				
04	10		14x2							14		7	0,43	
05	15		18x2,5							18		10	0,48	
06	20	25x3	25	15	0,66									
07	10	38x3	14x2	38	18	33	10	115	0,53					
08	15		18x2,5						18	10		0,59		
09	20		25x3						25	15		0,76		
10	32	25	38x3	32x2,5	38	32	33	24	150	115		0,93		
11	50	10	57x3	14x2	57	25	52	15	200	125		0,95		
12		15		18x2,5								18	10	1,01
13		20		25x3								32	15	1,19
14		25		32x2,5								32	24	1,36
15		32		38x3								38	28	1,58
16	65	15	76x4,5	18x2,5	76	25	68	10	134	1,80				
17		20		25x3						25		15	1,98	
18		25		32x2,5						32		24	2,15	
19		32		38x3						38		28	2,37	
20	80	20	89x5	25x3	89	32	80	15	140	2,99				
21		25		32x2,5						32		24	3,15	
22		32		38x3						38		28	3,37	
23	100	25	108x5	32x2,5	108	32	99	24	250	150		3,74		
24		32		38x3						38		28	3,96	
25		125		133x6						133		38	124	28
26	150	159x6	159	38	150	28	175	6,46						

## Nozzles

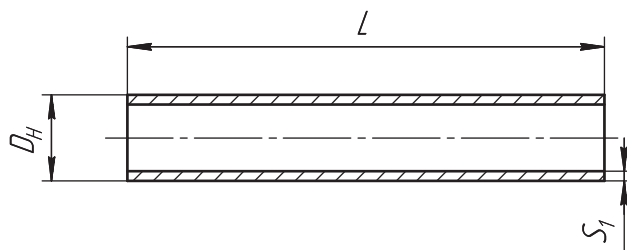
### OST 34-10-439-90, STO 79814898 122-2009



Indexing	Nom. inside diam. Dn	D	d	d <sub>b</sub>	Steel grade	Weight, kg
01	6	12	4	6	08X18H10T	0,06
02	10	18	7	10		0,14
03	15	22	10	13		0,20
04	20	28	15	19		0,29
05	25	38	24	28		0,50
06	32	42	28	33		0,55
07	50	63	47	52		1,17

## Nozzles for branch pipeline

### OST 34-10-509-90, STO 79814898 123-2009

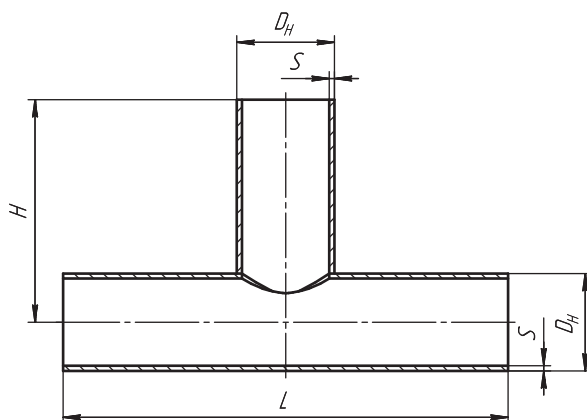


Indexing	Nominal inside diam. Dn <sub>1</sub>	Nozzle dimension D <sub>H</sub> ×S <sub>1</sub>	D <sub>p</sub>	Steel grade	Weight, kg
01	10	14x2	10,5	08X18H10T	0,06
02	15	18x2,5	13,5		0,09
03	20	25x3	19,5		0,16
04	25	32x2,5	28		0,18
05	32	38x3	33		0,26
06	50	57x3	52		0,41
07					0,40
08	65	76x4,5	68		0,85
09					0,82
10					0,79

Indexing	Nominal inside diam. Dn <sub>1</sub>	Nozzle dimension DнхS <sub>1</sub>	Dp	Steel grade	Weight, kg
11	80	89x5	80	08X18H10T	1,07
12					1,04
13	100	108x5	99		1,31
14					1,30
15	125	133x6	124		1,96
16					1,93
17	150	159x6	150		2,44
18					2,40
19					2,34
20	200	220x7	209		4,20
21					4,08
22					3,98
23					3,88
24	250	273x11	255		8,97
25					8,65
26					8,36
27					8,15
28					8,00
29	300	325x12	305		13,88
30					13,70
31					13,56
32	350	377x6	367		8,64
33					8,51
34					8,40
35					8,23
36	400	426x8	412		13,00
37					12,70
38	500	530x8	516		16,95
39	200	219x11	200		6,25
40					6,08
41					5,91
42	350	377x8	367		11,00

## Welded equal tees

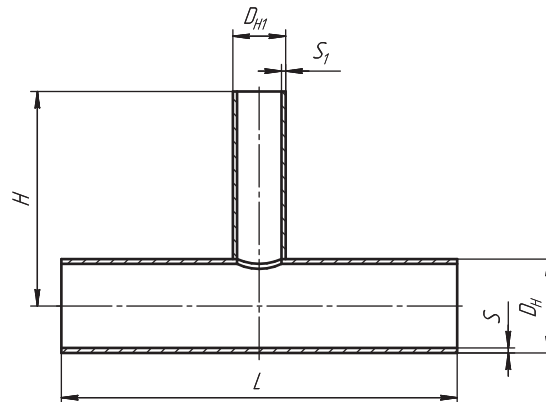
### OST 34-10-510-90, STO 79814898 124-2009



Indexing	Nom. inside diam. Dn	Dim. of connect. pipes	D <sub>H</sub>	D <sub>p</sub>	S	L	Steel grade	Weight, kg
01	50	57x3	57	52	3	260	08X18H10T	1,5
02	65	76x4,5	76	68	4,5	280		3,0
03	80	89x5	89	81	5	290		4,1
04	100	108x5	108	99		310		5,2
05	125	133x6	133	124	6	340		8,2
06	150	159x6	159	150		360		10,2
07	200	219x11	219	200	11	420		28,7
08		220x7	220	209	7			18,7
09	250	273x11	273	255	11	480		40,2
10	300	325x12	325	305	12	550		61,3
11	350	377x6	377	367	6	600		38,2
12	400	426x8	426	412	8	650		61,0
13	500	530x8	530	516		760		85,8
14	600	630x8	630	616	12	900		118,0
15		630x12		608				177,0
16	700	720x10	720	703	10	1000		188,6
17	800	820x10	820	803		1100		236,5
18	900	920x10	920	903		1210		289,6
19	1000	1020x10	1020	1003		1300		339,2
20	1200	1220x10	1220	1203		1550		472,0

## Welded unequal tees

### OST 34-10-511-90, STO 79814898 125-2009



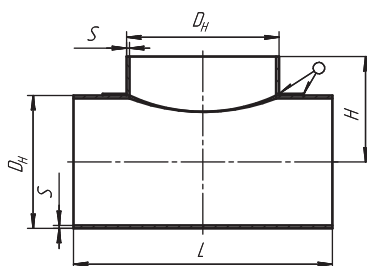
Indexing	Nominal inside diam. $D_n \times D_{n_1}$	Dim. of connect. pipes		$D_p$	$D_{p_1}$	L	Steel grade	Weight, kg	
		to the body	to the nozzle						
01	50x25	57x3	32x2,5	52	28	240	08X18H10T 12X18H10T	1,2	
02	50x32		38x3					33	1,3
03	65x32	76x4,5		68	2,2				
04	65x50		57x3		52	2,5			
05	80x50	89x5		80		3,1			
06	80x65		76x4,5		68	3,8			
07	100x50	108x5		99		52		290	4,1
08	100x65		76x4,5		68	4,5			
09	100x80					89x5			80
10	125x50	133x6	57x3	124	52	320		5,9	
11	125x65				76x4,5			68	6,2
12	125x80								89x5
13	125x100	159x6	108x5	150	99	360		7,2	
14	150x50				57x3			52	8,6
15	150x65								76x4,5
16	150x80				89x5			80	
17	150x100	108x5	99	124	9,7	420		9,9	
18	150x125				133x6			124	9,9
19	200x50	219x11	57x3	200	52	420		24,1	
20	200x65				76x4,5			68	24,5
21	200x80								89x5
22	200x100				108x5			99	
23	200x125								133x6
24	200x150				159x6			150	
25	200x50	220x7	57x3	209	52	209		15,9	
26	200x65				76x4,5			68	16,3
27	200x80								89x5
28	200x100				108x5			99	
29	200x125								133x6

Indexing	Nominal inside diam. DnxDn <sub>1</sub>	Dim. of connect. pipes		Dp	Dp <sub>1</sub>	L	Steel grade	Weight, kg
		to the body	to the nozzle					
30	200x150	220x7	159x6	209	150	420	08X18H10T 12X18H10T	17,3
31	250x50	273x11	57x3	255	52	480		34,6
32	250x65		76x4,5		68			34,9
33	250x80		89x5		80			35,4
34	250x100		108x5		99			35,5
35	250x125		133x6		124			36,0
36	250x150		159x6		150			36,2
37	250x200		219x11		200			39,2
38			220x7		209			36,1
39	300x65		325x12		76x4,5			305
40	300x80	89x5		80	49,6			
41	300x100	108x5		99	49,7			
42	300x125	133x6		124	50,2			
43	300x150	159x6		150	50,4			
44	300x200	219x11		200	55,5			
45		220x7		209	52,0			
46		273x11		255	55,7			
47	350x200	377x6		219x11	367	200		
48	350x250		273x11	255		48,8		
49	350x300		325x12	305		52,1		
50	400x200	426x8	219x11	412	200	600		56,9
51	400x250		273x11		255			59,6
52	400x300		325x12		305			61,4
53	400x350		377x6		367			52,6
54	500x250	530x8	273x11	516	255	700		81,2
55	500x300		325x12		305			85,2
56	500x350		377x6		367			77,5
57	500x400		426x8		412			78,9
58	600x300	630x8	325x12	616	305	750		104,8
59	600x350		377x6		367			97,2
60	600x400		426x8		412			101,4
61	600x500		530x8		516			850
62	600x250	630x12	273x11	608	255	750		145,6
63	600x300		325x12		305			147,9
64	600x350		377x6		367			139,2
65	600x400		426x8	412	142,2			
66	600x500		530x8	516	155,3			
67	700x300		720x10	325x12	703	305		850
68	700x350	377x6		367		152,6		
69	700x400	426x8		412		156,2		
70	700x500	530x8		516	152,5			
71	700x600	630x8		616	950	168,5		
72		630x12		608	183,4			



Indexing	Nominal inside diam. DnxDn <sub>1</sub>	Dim. of connect. pipes		Dp	Dp <sub>1</sub>	L	Steel grade	Weight, kg
		to the body	to the nozzle					
73	800x400	820x10	426x8	803	412	900	08X18H10T 12X18H10T	186,8
74	800x500		530x8		516			
75	800x600		630x8		616	1000		
76			630x12		608			
77	800x700		720x10		703			
78	900x400	920x10	426x8	903	412	1100		231,4
79	900x500		530x8		516			
80	900x600		630x8		616	1200		
81			630x12		608			
82	900x700		720x10		703			
83	900x800	820x10	803					
84	1000x500	1020x10	530x8	1003	516	1100		280,8
85	1000x600		630x8		616			
86			630x12		608	1300		
87	1000x700		720x10		703			
88	1000x800	1020x10	820x10	1003	803	1300		336,0
89	1000x900		920x10		903			
90	1200x600	1220x10	630x8	1203	616	1200		366,1
91			630x12		608			
92	1200x700		720x10		703			
93	1200x800		820x10		803	1400		
94	1200x900		920x10		903			431,1
95	1200x1000	1020x10	1003	1003	1400	430,6		

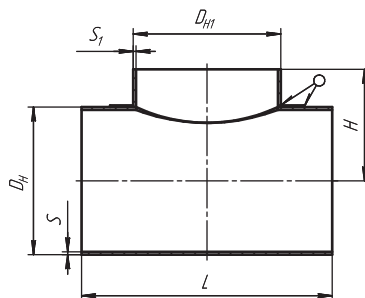
## Welded equal tees with padding OST 34-10-512-90, STO 79814898 126-2009



Indexing	Nom. inside diam. Dn	Dim. of connect. pipes	Dn	Dp	S	L	Steel grade	Weight, kg
01	350	377x6	377	367	8	700	08X18H10T 12X18H10T	63,2
02	400	426x8	426	412		770		
03	500	530x8	530	516	10	900		131,6
04	600	630x12	630	608	12	1050		215,3
05		630x8		616	8	950		133,4
06	700	720x10	720	703	10	1150		228,8
07	800	820x10	820	803		1450		296,4
08	1000	1020x10	1020	1003				411,8
09	1200	1220x10	1220	1203	1650	546,4		

## Welded unequal tees with padding

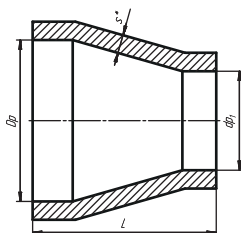
### OST 34-10-513-90, STO 79814898 127-2009



Indexing	Nominal inside diam. DnxDn <sub>1</sub>		Dim. of connect. pipes	Dp	Dp <sub>1</sub>	L	Steel grade	Weight, kg	
	to the body	to the nozzle							
01	350	100	377x6	367	99	500	08X18H10T 12X18H10T	30,6	
02		125			124			31,7	
03		150			150			32,4	
04		200			209	550		37,6	
05		300			305			54,9	
06	400	150	426x8	412	150	600		54,4	
07		200			209			55,2	
08		300			305			53,3	
09		350			367			68,12	
10	500	100	530x8	516	99	700		75,5	
11		125			124			76,5	
12		150			150			77,1	
13		200			220x7			209	79,2
14					219x11			200	79,3
15					273x11			255	85,5
16		300			325x12			305	88,2
17		350			377x6			367	820
18	600	200	630x12	608	209	750		144,2	
19		350		377x6	367	820		161,1	
20		400		426x8	412	165,4			
21	500	530x8	516	412	750	89,9			
22	600	350	377x6	367		750		102,9	
23		400	426x8	616		412		108,0	
24		500	630x8	530x8		516		900	127,7
25	630x12							608	160,6
26	700	350	720x10	703	367	850		157,4	
27		400			426x8	412		161,7	
28		500			530x8	516		900	172,4
29		600			630x8	616		1000	193,8
30					630x12	608			205,6
31	800	350	820x10	803	367	900		190,3	
32		400			426x8			412	194,5
33		500			530x8			516	200,7
34		600			630x12	608		1100	255,8
35					630x8	616			230,1
36					720x10	703			239,5

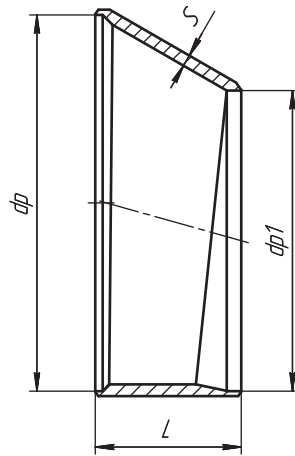
Indexing		Nominal inside diam. DnxDn <sub>1</sub>		Dim. of connect. pipes	Dp	Dp <sub>1</sub>	L	Steel grade	Weight, kg
		to the body	to the nozzle						
37	900	500	920x10	530x8	903	516	1000	08X18H10T 12X18H10T	236,8
38		600		630x8		616	1200		285,6
39		700		720x10		703			291,6
40	900	800	920x10	820x10	903	803	1200		295,7
41	1000	500	1020x10	530x8	1003	516	1100		288,7
42		600		630x8		616			291,4
43		700		720x10		703			1300
44		800		820x10		803	356,3		
45		900		920x10		903	358,9		
46	1200	1000	1220x10	1020x10	1203	1003	1400		441,1
47		900	920x10	903		436,0			

## Concentric reducers ATM.A.350.600.00.01



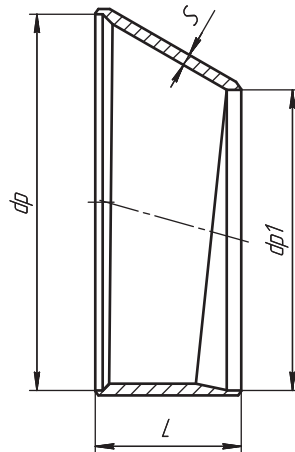
Indexing	Nominal inside diam.		Dim. of reducer, mm		Dim. of connecti. pipes				Steel grade	Weight, kg		
	Dn	Dn <sub>1</sub>			Dp	dp <sub>1</sub>	S	L				
P ≤ 2,2 MPa, T ≤ 350°C												
ATM.A.350.600.00.01	350	300	377x10	325x12	359 <sup>+0,57</sup>	305 <sup>+0,52</sup>	12	150	08X18H 10T	16,3		
-01			377x8		367 <sup>+0,57</sup>						12	150
-02	400	350	426x12	377x10	404 <sup>+0,63</sup>	359 <sup>+0,57</sup>	14	150		21,5		
-03			426x10		412 <sup>+0,63</sup>					12	150	18,5
-04			426x12	377x8	404 <sup>+0,63</sup>	367 <sup>+0,57</sup>	14	150		21,5		
-05			426x10		412 <sup>+0,63</sup>					14	250	33,5
-06			500	400	530x16	426x12	500 <sup>+0,7</sup>	404 <sup>+0,63</sup>		16	200	45,7
-07	530x10	516 <sup>+0,7</sup>			14		200					35,9
-08	530x16	426x10			500 <sup>+0,7</sup>	412 <sup>+0,63</sup>	16	200		45,7		
-09	530x10				516 <sup>+0,7</sup>					280	52,5	
-10	630x16				600 <sup>+0,7</sup>					404 <sup>+0,63</sup>	320	87,5
-11	630x12	426x12	608 <sup>+0,7</sup>	320	78							
-12	600	400	630x8	426x10	616 <sup>+0,7</sup>	412 <sup>+0,63</sup>	16	320		87,5		
-13			630x16		600 <sup>+0,7</sup>						320	78
-14			630x12		608 <sup>+0,7</sup>						320	
-15			630x8	616 <sup>+0,7</sup>	320	77,8						
-16			630x16	600 <sup>+0,7</sup>	500 <sup>+0,7</sup>	210	57,4					
-17	630x12	530x16	608 <sup>+0,7</sup>	210			57,2					
-18	600	500	630x8	530x10	616 <sup>+0,7</sup>	516 <sup>+0,7</sup>	210	210		57		
-19			630x16		600 <sup>+0,7</sup>					210	57,4	
-20			630x12	608 <sup>+0,7</sup>	210	57,2						
-21			630x8	616 <sup>+0,7</sup>	210	57,1						
-22	400	300	426x10	325x12	412 <sup>+0,63</sup>	305 <sup>+0,52</sup>	12	175	16,8			

## Concentric reducers ATM.A.Э500x400.00



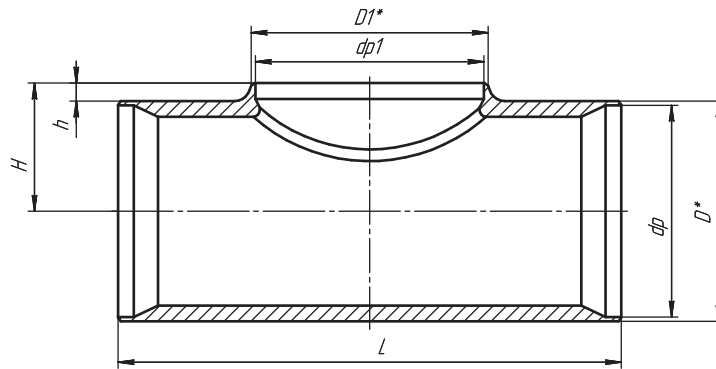
Indexing	Nominal inside diam.		Dim. of reducer, mm		Dim. of connecti. pipes				Марка стали	Weight, kg
	Dn	Dn <sub>1</sub>			dp	dp <sub>1</sub>	S	L		
Design pressure = 1,0 MPa, design temperature = 100°C.										
ATM.A.Э500x400.00	500	400	530x10	426x10	516 <sup>+0,7</sup>	412 <sup>+0,63</sup>	16	200	08X18H10T	45

## Eccentric reducers ATM.A.Э600x400.00



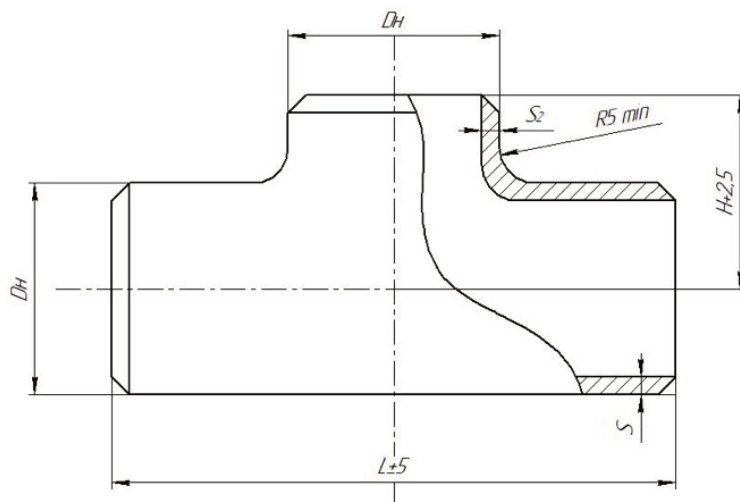
Indexing	Nominal inside diam.		Dim. of reducer, mm		Dim. of connecti. pipes				Марка стали	Weight, kg
	Dn	Dn <sub>1</sub>			dp	dp <sub>1</sub>	S	L		
Design pressure = 1,0 MPa, design temperature = 100°C.										
ATM.A.Э600x400.00	600	400	630x12	426x10	608 <sup>+0,7</sup>	412 <sup>+0,63</sup>	16	375	08X18H10T	115

## Tees with drawn down neckline ATM.A.350x600.00.04



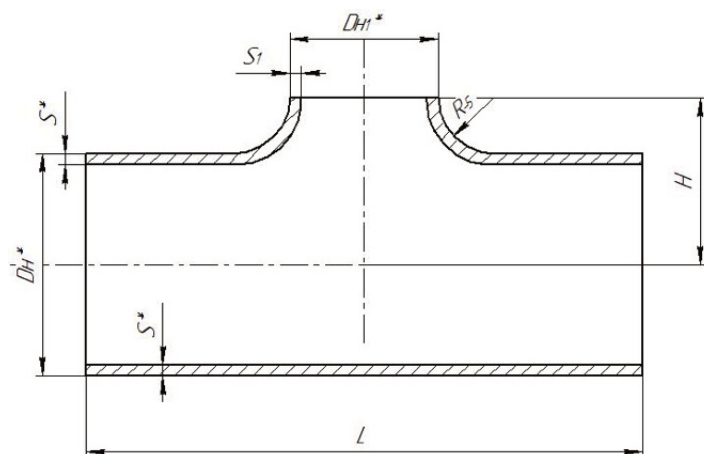
Indexing	Nom. inside diam.		Dim. of connect. pipes		L		H±5	h	dp	dp <sub>1</sub>	Steel grade	Weight, kg
	Dn	Dn <sub>1</sub>			min	max						
ATM.A.350x600.00.04	350	250	377x8	273x11	410	1200	225	36	367 <sup>+0,57</sup>	255 <sup>+0,52</sup>	08X18H10T-Ш	0,23xL
-01	350	300	377x8	325x12	450	1200	217	28	367 <sup>+0,57</sup>	305 <sup>+0,52</sup>		0,23xL
-02	350	300	377x10	325x12	450	1200	217	28	359 <sup>+0,57</sup>	305 <sup>+0,52</sup>		0,23xL
-05	400	200	426x12	219x11	450	1200	241	28	404 <sup>+0,63</sup>	200 <sup>+0,46</sup>		0,25xL
-06	400	200	426x10	219x11	450	1200	241	28	412 <sup>+0,63</sup>	200 <sup>+0,46</sup>		0,25xL
-07	400	300	426x10	325x12	460	1200	251	38	412 <sup>+0,63</sup>	305 <sup>+0,52</sup>		0,25xL
-08	400	300	426x12	325x12	450	1200	251	38	404 <sup>+0,63</sup>	305 <sup>+0,52</sup>		0,25xL
-09	400	350	426x10	377x8	500	1200	246	33	412 <sup>+0,63</sup>	367 <sup>+0,57</sup>		0,25xL
-10	400	350	426x10	377x10	500	1200	246	33	412 <sup>+0,63</sup>	359 <sup>+0,57</sup>		0,25xL
-11	400	350	426x12	377x8	500	1200	246	33	404 <sup>+0,63</sup>	367 <sup>+0,57</sup>		0,25xL
-12	400	350	426x12	377x10	500	1200	246	33	404 <sup>+0,63</sup>	359 <sup>+0,57</sup>		0,25xL
-13	500	200	530x10	219x11	450	1200	295	30	516 <sup>+0,7</sup>	200 <sup>+0,46</sup>		0,35xL
-14	500	300	530x10	325x12	530	1200	305	40	516 <sup>+0,7</sup>	305 <sup>+0,52</sup>		0,35xL
-15	600	200	630x10	219x11	360	1200	345	30	616 <sup>+0,7</sup>	200 <sup>+0,46</sup>		0,45xL
-16	600	200	630x12	219x11	360	1200	348	33	608 <sup>+0,7</sup>	200 <sup>+0,46</sup>		0,45xL
-17	600	200	630x16	219x11	360	1200	345	30	600 <sup>+0,7</sup>	200 <sup>+0,46</sup>		0,45xL
-18	600	250	630x10	273x11	410	1200	345	30	616 <sup>+0,7</sup>	255 <sup>+0,52</sup>		0,45xL
-19	600	250	630x12	273x11	410	1200	348	33	608 <sup>+0,7</sup>	255 <sup>+0,52</sup>		0,45xL
-20	600	250	630x16	273x11	410	1200	350	35	600 <sup>+0,7</sup>	255 <sup>+0,52</sup>		0,45xL
-21	600	300	630x10	325x12	450	1200	345	30	616 <sup>+0,7</sup>	305 <sup>+0,52</sup>		0,45xL
-22	600	300	630x12	325x12	460	1200	348	33	608 <sup>+0,7</sup>	305 <sup>+0,52</sup>		0,45xL
-23	600	300	630x16	325x12	450	1200	350	35	600 <sup>+0,7</sup>	305 <sup>+0,52</sup>		0,45xL
-24	600	350	630x10	377x8	520	1200	355	40	616 <sup>+0,7</sup>	367 <sup>+0,57</sup>		0,45xL
-25	600	350	630x10	377x10	520	1200	355	40	616 <sup>+0,7</sup>	359 <sup>+0,57</sup>		0,45xL
-26	600	350	630x12	377x8	520	1200	360	45	608 <sup>+0,7</sup>	367 <sup>+0,57</sup>		0,45xL
-27	600	350	630x12	377x10	520	1200	360	45	608 <sup>+0,7</sup>	359 <sup>+0,57</sup>		0,45xL
-28	600	350	630x16	377x8	520	1200	360	45	600 <sup>+0,7</sup>	367 <sup>+0,57</sup>		0,45xL
-29	600	350	630x16	377x10	520	1200	360	45	600 <sup>+0,7</sup>	359 <sup>+0,57</sup>		0,45xL
-30	600	400	630x10	426x10	560	1200	365	45	616 <sup>+0,7</sup>	412 <sup>+0,63</sup>		0,45xL
-31	600	400	630x10	426x12	560	1200	365	45	616 <sup>+0,7</sup>	404 <sup>+0,63</sup>		0,45xL
-32	600	400	630x12	426x10	560	1200	360	45	608 <sup>+0,7</sup>	412 <sup>+0,63</sup>		0,45xL
-33	600	400	630x12	426x12	560	1200	360	45	608 <sup>+0,7</sup>	404 <sup>+0,63</sup>		0,45xL
-34	600	400	630x16	426x10	560	1200	360	45	600 <sup>+0,7</sup>	412 <sup>+0,63</sup>		0,45xL
-35	600	400	630x16	426x12	560	1200	360	45	600 <sup>+0,7</sup>	404 <sup>+0,63</sup>		0,45xL
-36	500	350	530x10	377x8	530	1200	305	40	516 <sup>+0,7</sup>	367 <sup>+0,57</sup>		0,35xL
-37	500	400	503x10	426x10	570	1200	305	40	516 <sup>+0,7</sup>	412 <sup>+0,63</sup>		0,35xL

## Seamless equal tees for NPP (hydroformed) Л8-151



Indexing	Nominal inside diameter Dn	Dimension of connecting pipes	Dh	Dp	S not less than	S2 not less than	R not more than	L	H	Steel grade
Л8-151-05	10	14x2	14	10,5	2	1,7	10	40	15	12X18H10T 08X18H10T
Л8-151-06	15	18x2,5	18	13,5	2,5	2,1		45	20	
Л8-151-07	20	25x3	25	19,5	4,0	3,0		50	25	
Л8-151-08	25	32x2,5	32	28	5,0	4,0		60	30	
Л8-151-09	32	38x3	38	33	5,5	5,0	15	70	30	
Л8-151-10	50	57x3	57	52	7,0		20	100	40	
Л8-151-11	65	76x4,5	76	68		6,0		130	55	
Л8-151-12	80	83x5	89	80			25	160	70	
Л8-151-13	100	108x5	108	99	8,0	5,0		200		

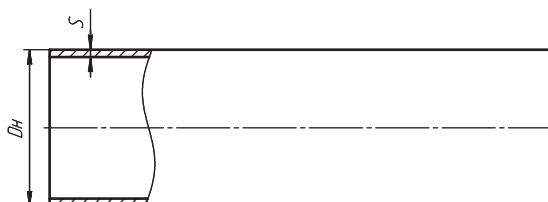
## Seamless tees made of corrosion-resistant steel for NPP Л8-818



Indexing	Nominal inside diameters DnxDn1	Dimension of connecting pipes		Dn	Dn1	S not less than	R	L	H	Steel grade	
		to the body	to the nozzle								
Л8-118	10x10	14x2	14x2	14	14	3,0	10	40	15	08X18H10T 12X18H10T	
Л8-118-01	15x10	18x2,5	14x2	18	14	3,5		45	20		
Л8-118-02	15x15		18x2,5		18			18			
Л8-118-03	20x10	25x3	14x2	25	14	3,0		50	25		
Л8-118-04	20x15		18x2,5		18						18
Л8-118-05	20x20		25x3		25						25
Л8-118-06	25x10	32x2,5	14x2	32	14	2,5		60	30		
Л8-118-07	25x15		18x2,5		18						18
Л8-118-08	25x20		25x3		25	25					4,0
Л8-118-09	25x25		32x2,5		32	32					
Л8-118-10	32x10	38x3	14x2	38	14	3,0	70	35			
Л8-118-11	32x15		18x2,5		18				18		
Л8-118-12	32x20		25x3		25				25		
Л8-118-13	32x25		32x2,5		32	32			4,5		
Л8-118-14	32x32		38x3		38	38					
Л8-118-15	50x25	57x3	32x2,5	57	32	3,0	100	45			
Л8-118-16	50x32		38x3		38				38		
Л8-118-17	50x50		57x3		57	57					
Л8-118-18	65x32	76x4,5	38x3	76	38	4,5	150	55			
Л8-118-19	65x50		57x3		57				57		
Л8-118-20	65x65		76x4,5		76	76			7,0		
Л8-118-21	80x50		57x3		57	57					5,0
Л8-118-22	80x65	89x5	76x4,5	89	76	7,5	200	65			
Л8-118-23	80x80		89x5		89				89		

## Pipes deliverable in lineal meters

### OST 34-42-658-90, STO 79814898 113-2009



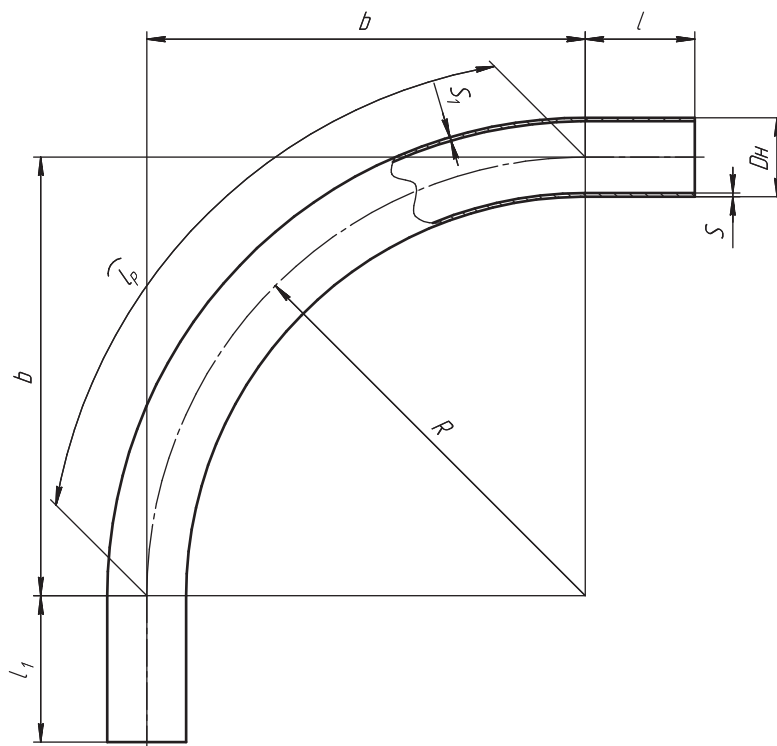
Nom. inside diam. Dn	Dimen. of pipes		Steel grade	TU for pipes procurement
	Dn	S		
10	14	2	Steel 20	TU 14-3-190-04
15	18			
20	25			
25	32			
32	38			
50	57	3		
65	76	3,5		
80	89			
100	108	4		
125	133	5		
150	159			
200	219	7		
250	273	8		
300	325			
350	377	9		
400	426	6		
100	108			
125	133	7		
150	159			
200	219	9		
250	273	11		
300	325	13		
350	377			
400	426	14	TU 14-3P-55-01	
500	530	8	Steel 20	TU 13.03-011-00212 179-2003
			Steel 20, 09Г2С, 16ГС	TU 95.499-2000
600	630	12	Steel 20	TU 13.03-011-00212 179-2003
			Steel 20, 09Г2С, 16ГС	TU 95.499-2000
700	720	8	Steel 20	TU 13.03-011-00212 179-2003
			Steel 20, 09Г2С, 16ГС	TU 95.499-2000
800	820	9	Steel 20	TU 13.03-011-00212 179-2003
			Steel 20, 09Г2С, 16ГС	TU 95.499-2000
900	920	11		
900	920	10	Steel 20	TU 13.03-011-00212 179-2003
			Steel 20, 09Г2С, 16ГС	TU 95.499-2000
1000	1020	10 <sup>⊙</sup>	Steel 20	TU 13.03-011-00212 179-2003
		14	Steel 20, 09Г2С, 16ГС	TU 95.499-2000



Nom. inside diam. Dn	Dimen. of pipes		Steel grade	TU for pipes procurement
	D <sub>H</sub>	S		
1200	1220	11	Steel 20	TU 13.03-011-00212 179-2003
			Steel 20, 09Г2С, 16ГС	TU 95.499-2000
1400	1420	14	Steel 20	TU 13.03-011-00212 179-2003
			Steel 20, 09Г2С, 16ГС	TU 95.499-2000
1600	1620	14	Steel 20	TU 13.03-011-00212 179-2003
			Steel 20, 09Г2С, 16ГС	TU 95.499-2000

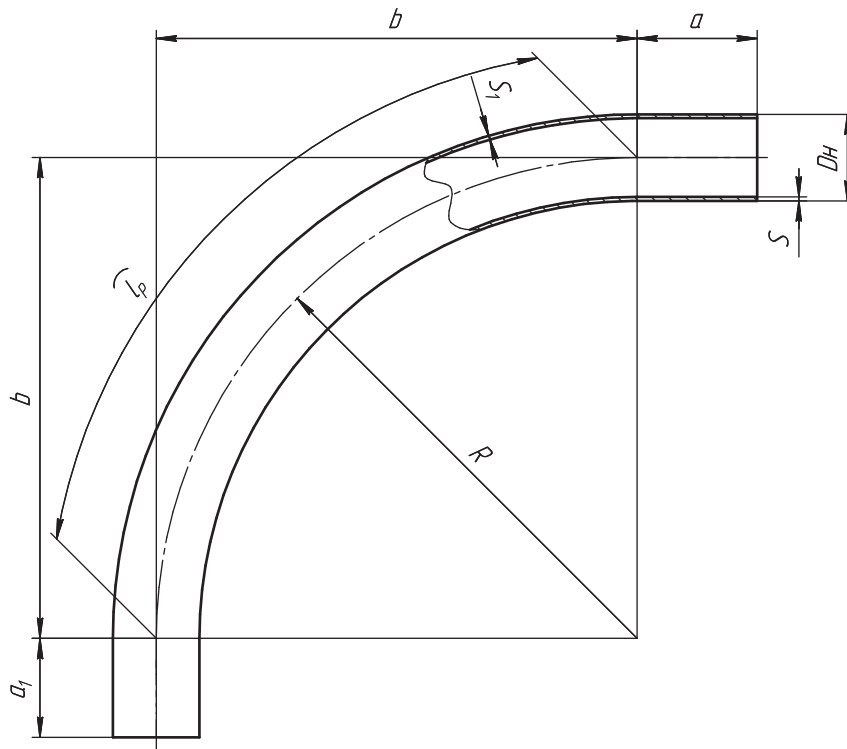
Note: The pipes not specified in the assortment of OST 34-10-658-84 and STO 79814898 113-2009 are supplied in accordance with dimensions specified in TU 14-3P-55-2001, TU 95.499-2000, TU 14-3-190-04, TU 13.03-011-00212 179-2003.

## Curved bends (elbows) according to OST 34-42-661-84, STO 95.115-2013



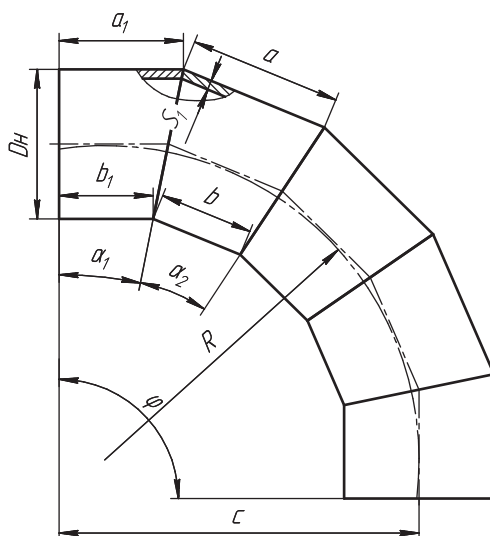
Indexing	Nom. inside diam. Dn	D <sub>H</sub> ×S	R	D <sub>p</sub>	s <sub>1</sub> not less than	Length of straight pipe segment not less than		Angles of bending										Steel grade			
						l	l <sub>1</sub>	15°		30°		45°		60°		90°					
								lp	b	lp	b	lp	b	lp	b	lp	b				
OST 34-42-661-84, STO 95.115-2013	10	14	100	11	1,5	100	100	26	13	52	27	78	41	106	58	157	100	Steel 20			
	15	18		22																	
	20	25		29																	
	25	32		35																	
	32	38	150	35	2,5	150	150	39	20	79	40	118	52	157	87	236	150				
	50	57	300	52				79	40	157	80	236	124	314	173	471	300				
	65	76	400	71				3	200	200	105	53	210	107	314	166	419		231	628	400
	80	89		84																	

## Short radius bent pipes according to OST 34-42-662-84, STO 95.116-2013



Indexing	Nom. inside diam. Dn	D <sub>H</sub> ×S	R	D <sub>p</sub>	S <sub>1</sub>	a	a <sub>1</sub>	a <sub>2</sub>	Steel grade
						not less than			
OST 34-42-662-84, STO 95.116-2013	80	89×3,5	250	84	2,5	250	600	250	Steel 20
	100	108×4		102	3			300	
	125	133×6	127	4	350				
	150	159×7	350	151	4	400	700	400	
	200	219×9	500	208	5	500	800	500	
	250	273×11	750	259	5	500	800	500	
	125	133×4	300	127	3	300	600	300	
	150	159×5	350	151	4	350		350	
	200	219×7	500	208	4	400	700	400	
	250	273×8	750	259	5	500	800	500	
	300	325×13	900	311	4,5	600	1000	600	
	350	377×13	1050	361	5	800		800	
	400	426×14	1200	410		1000		1000	
	300	325×8	900	311	4,5	600		600	
	350	377×9	1050	361	5	800		800	
	400	426×9	1200	410		1000		1000	

## Welded bends (elbows) according to OST 34-42-663-84, STO 95.117-2013



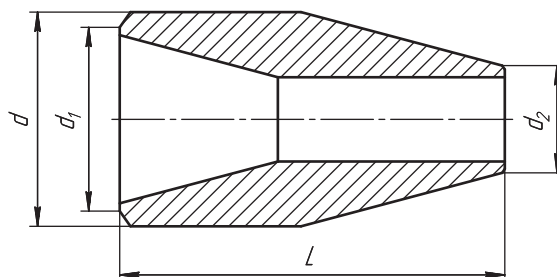
Modification	Nom. inside diam. Dn	Dim. of connect. pipes	DH <sub>1</sub>	S <sub>1</sub>	R	α <sub>1</sub>	α <sub>2</sub>	φ	a	a <sub>1</sub>	b	b <sub>1</sub>	c	Steel grade	Weight, kg	
Elbows with the angle of bending α 15°																
001	150	159x5	159	5	460	7°30'	-	165°	-	121	-	100	111	Steel 20	4,30	
002	200	219x7	219	7	490					129			115		8,60	
003	250	273x8	273	8	520					136			118		12,70	
004	300	325x8	325		545					143			122		15,60	
005	350	377x9	377	9	570					150			125		21,00	
006	400	426x9	426		595					156			128		24,30	
007	500	530x8	530	10	800					190			120		155	40,70
008					645					170			100		135	35,60
009	600	630x12	630	12	950					217			134		175	66,25
010					659					183			100		142	54,05
011		630x8		10	950					217			134		175	54,60
012					695					183			100		142	44,50
013	700	720x8	720	10	1080					240			145		192	68,6
014					740					195			100		147	52,8
015					1230					216			108		162	67,1
016	800	820x9	820	12	820					212			104		158	77,5
017				10	212					104			158		65,6	
018	900	920x10	920	12	1380					242			121		182	100,0
019					920					232			111		171	94,7
020					1530					269			134		201	122,4
021	1000	1020x10	1020	12	1020					251			117		184	112,3
022					1830					322			161		241	177,8
023					1220					291			130		210	155,3
024	1400	1420x14	1420	14	2130					374			187		280	280,6
025				18	1420					330			143		237	300,8
026				14	1420					330			143		237	238,2
027	1600	1620x14	1620	14	2430					426			213		320	365,5
028					1620					320			107		213	245,0

Modi- fica-	Nom. inside diam. Dn	Dim. of connect. pipes	DH <sub>1</sub>	S <sub>1</sub>	R	α <sub>1</sub>	α <sub>2</sub>	φ	a	a <sub>1</sub>	b	b <sub>1</sub>	c	Steel grade	Weight, kg		
Elbows with the angle of bending α 30°																	
029	150	159x5	159	5	460	7°30'	15°	150°	142	121	100	100	173	Steel 20	6,7		
030	200	219x7	219	7	490				158	129			181				
031	250	273x8	273	8	520				172	136			189				
032	300	325x8	325		545				186	143			196				
033	350	377x9	377	9	570				200	150			203				
034	400	426x9	426		595				212	156			209				
035	500	530x8	530	10	800				280	190			140		120	264	65,6
036					645				240	170			100		100	223	58,2
037	600	630x12	630	12	950				334	217			168		134	304	115,0
038					659				266	183			100		100	236	89,7
039		630x8		950	10				334	217			168		134	304	94,2
040									695	266			183		100	100	236
041	700	720x8	720	10	1080				380	240			190		145	339	119,9
042					740				290	195			100		100	248	88,2
043	800	820x9	820	12	1230				432	216			216		108	330	134,2
044					820				324	212			108		104	270	131,1
045				10	1380				484	242			242		121	370	200,0
046					920				364	232			122		111	297	162,4
048	1000	1020x10	1020	12	1530				538	269			268		134	410	244,8
049					1020				402	251			134		117	323	194,6
050	1200	1220x11	1220	14	1830				644	322			322		161	490	355,8
051					1220				482	291			160		130	377	275,2
052	1400	1420x14	1420	14	2130				748	374			374		187	571	561,2
053				18	1420				560	330			186		143	430	538,2
054				14	2430				852	426			426		213	651	730,9
055	1600	1620x14	1620	14	1620				640	320			214		107	434	490,1
056				1620	640				320	214			107		434	490,1	
Elbows with the angle of bending α 45°																	
057	100	108x4	108	4	305	11°15'	22°30'	135°	144	122	100	100	176	Steel 20	3,6		
058	125	133x4	133		320				154	127			183				
059	150	159x5	159	5	330				164	132			187				
060	200	219x7	219	7	360				188	144			199				
061	250	273x8	273	8	410				218	159			110		105	220	23,0
062	300	325x8	325		490				260	180			130		115	253	31,5
063	350	377x9	377	9	570				300	200			150		125	286	46,2
064	400	426x9	426		640				340	220			170		135	315	57,9
065	500	530x8	530	10	800				424	212			212		106	331	83,5
066					530				318	209			106		103	270	69,1

Modification	Nom. inside diam. Dn	Dim. of connect. pipes	DH <sub>1</sub>	S <sub>1</sub>	R	α <sub>1</sub>	α <sub>2</sub>	φ	a	a <sub>1</sub>	b	b <sub>1</sub>	c	Steel grade	Weight, kg
067	600	630x12	630	12	950	11°15'	22°30'	135°	504	252	252	126	393	Steel 20	142,92
068					630				378	239	126	113	311		114,76
069		630x8		10	950				504	252	252	126	393		117,80
070					630				378	239	126	113	311		64,61
071	700	720x8	720	10	1080				572	286	286	143	447		153,11
072					720				432	266	144	122	348		120,90
073					1230				652	326	326	163	509		201,70
074	800	820x9	820	12	820				492	296	164	132	390		183,90
075				10	156,20										
076	900	920x10	920	12	1380				732	366	366	183	571		300,00
077					920				550	325	184	142	431		229,10
078	1000	1020x10	1020		1530				812	406	406	203	633		368,9
079	1000	1020x10	1020		1020				608	304	202	101	422		247,2
080	1200	1220x11	1220	12	1830				972	486	486	243	785		535,9
081					1220				732	366	244	122	505		360,1
082	1400	1420x14	1420	14	2130				1132	566	566	283	882		847,0
083				18	1420	852	426	284	142	588	718,6				
084				14	2430	1097,8									
085	1600	1620x14	1620	14	1620	966	483	322	161	671	735,4				
086					1620										
Elbows with the angle of bending α 67°30'															
087	100	108x4	108	4	305	11°15'	22°30'	112°30'	144	122	100	100	254	Steel 20	4,9
088	125	133x4	133		320				154	127			264		6,4
089	150	159x5	159	5	330				164	132	270	9,7			
090	200	219x7	219	7	360				188	144	290	20,1			
091	250	273x8	273	8	410				218	159	110	105	324		31,90
092	300	325x8	325		490				260	180	130	115	377		44,20
093	350	377x9	377	9	570				300	200	150	125	431		65,20
094	400	426x9	426		640				340	220	170	135	478		82,20
095	500	530x8	530	10	800				424	212	212	106	535		125,20
096					530				318	209	106	103	404		97,20
097	600	630x12	630	12	950				504	252	252	126	635		214,33
098					630				378	239	126	113	471		162,89
099		630x8		10	950				504	252	252	126	635		176,70
100					630				378	239	126	113	471		134,30
101	700	720x8	720	10	1080				572	286	286	143	722		229,80
102					720	432	266	144	122	531	172,60				
103					1230	652	326	326	163	822	302,50				
104	800	820x9	820	12	820	492	296	164	132	598	263,3				
105				10	224,1										

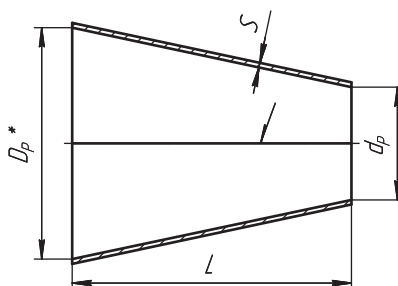
Modification	Nom. inside diam. Dn	Dim. of connect. pipes	DH <sub>1</sub>	S <sub>1</sub>	R	α <sub>1</sub>	α <sub>2</sub>	φ	a	a <sub>1</sub>	b	b <sub>1</sub>	c	Steel grade	Weight, kg
106	900	920x10	920	12	1380	11°15'	22°30'	112°30'	732	366	366	183	922	Steel 20	450,0
107					920				550	325	184	142	665		330,2
108	1000	1020x10	1020		1530				812	406	406	203	1022		553,5
109					1020				608	304	202	101	682		370,8
110	1200	1220x11	1220		1830				972	486	486	243	1223		803,8
111					1220				732	366	244	122	815		540,0
112	1400	1420x14	1420	14	2130				1132	566	566	283	1423		1270,4
113				18	1420				852	426	284	142	949		1077,6
114				14	2430				1288	644	644	322	1624		1646,7
115	1600	1620x14	1620	1620	966				483	322	161	1082	1103,2		
116				144	122				144	122	355	6,2			
117	100	108x4	108	4	305				154	127	100	100	370		8,0
118	125	133x4	133	5	320			164	132	380			12,3		
119	150	159x5	159	7	330			188	144	410	25,6				
120	200	219x7	219	8	360			218	159	110	105	460	40,8		
121	250	273x8	273	9	410			260	180	130	115	540	56,8		
122	300	325x8	325	10	490			300	200	150	125	620	84,2		
123	350	377x9	377	10	570			340	220	170	135	690	106,5		
124	400	426x9	426	12	640			424	212	212	106	800	166,9		
125	500	530x8	530	800	950			318	209	106	103	580	125,3		
126				530	504			252	252	126	950	287,0			
127	600	630x12	630	12	630			378	239	126	113	680	211,0		
128				10	950			504	252	252	126	950	235,6		
129		630x8		630	378			239	126	113	680	173,9			
130				1080	572	286	286	143	1080	306,4					
131	700	720x8	720	10	720	432	266	144	122	770	224,3				
132	800	820x9	820	1230	652	326	326	163	1230	403,4					
133				12	820	492	296	164	132	870	343,0				
134				10	1380	732	366	366	183	1380	600,0				
135	900	920x10	920	920	550	325	184	142	970	431,3					
136				1530	812	406	406	203	1530	738,0					
137	1000	1020x10	1020	1020	608	304	202	101	1020	494,4					
138				1830	972	486	486	243	1830	1072,0					
139	1200	1220x11	1220	1220	732	366	244	122	1220	720,2					
140				2130	1132	566	566	283	2130	1693,9					
141	1400	1420x14	1420	14	1420	852	426	284	142	1420	1437,3				
142				18	1420	852	426	284	142	1420	1138,2				
143	1600	1620x14	1620	14	2430	1288	644	644	322	2430	2195,6				
144				1620	966	483	322	161	1620	1470,9					
145	1620	966	483	322	161	1620	1470,9								

## Turned reducers / increasers OST 34-42-664-84, STO 95 118-2013



Indexing	Nominal inside diam.		Dimensions of connecting pipes		Dimensions of reducer, mm			Steel grade	Weight, kg
	Dn	Dn <sub>1</sub>			Dp	Dp <sub>1</sub>	L		
01	15	10	18x2	14x2	15	11	50	Steel 20	0,09
02	20		25x2		18x2				22
03		15		0,17					
04	25	10	32x2	14x2	29	11			0,22
05		15	18x2	15		0,24			
06		20	25x2	22		0,22			
07		10	38x2	14x2		35			11
08	15	18x2		15	0,23				
09	20	25x2		22	0,28				
10	25	32x2		29	0,30				

## Welded reducers / increasers of sheet metal OST 34-42-665-84, STO 95 119-2013

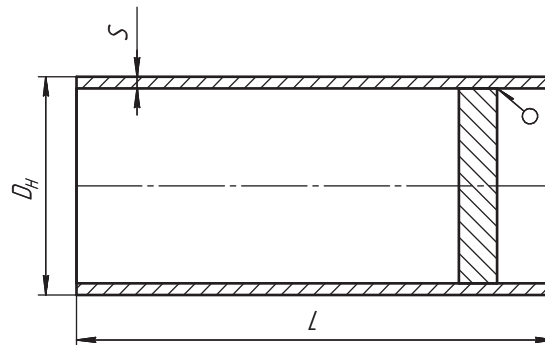


Indexing	Nominal inside diam.		Dimensions of connecting pipes		Dimensions of reducer, mm				Steel grade	Weight, kg			
	Dn	dn			Dp	dp	S	L					
01	500	250	530x8	273x8	516	259	10	612	Steel 20	62,4			
02		300								325x8	311	490	53,4
03		350								377x9	361	377	43,7
04		400								426x6	410	262	32,1

Indexing	Nominal inside diam.		Dimensions of connecting pipes		Dimensions of reducer, mm				Steel grade	Weight, kg
	Dn	dn			Dp	dp	S	L		
05	600	300	630x8	325x8	616	10	10	311	725	88,2
06		350		377x9				361	612	78,4
07		400		426x9				410	497	66,9
08		500		530x8				516	243	36,6
09	700	350	720x8	377x9	706	10	10	361	824	113,9
10		400		426x9				410	709	103,2
11		500		530x8				516	455	72,9
12		600		630x8				616	220	38,7
13	800	400	820x9	426x9	804	12	12	410	940	148,3
14		500		530x8				516	685	118,0
15		600		630x8				616	450	83,7
16		700		720x8				706	238	47,7
17	900	500	920x10	530x8	902	12	12	516	915	203,3
18		600		630x8				616	680	162,1
19		700		720x8				706	468	118,6
20		800		820x9				804	243	65,9
21	1000	500	1020x10	530x8	1002	12	12	516	1150	272,8
22		600		630x8				616	915	231,6
23		700		720x8				706	704	188,1
24		800		820x9				804	478	135,4
25		900		920x10				902	248	74,8
26	1200	600	1220x11	630x8	1201	14	14	616	1385	391,4
27		700		720x8				706	1171	347,9
28		800		820x9				804	946	295,2
29		900		920x10				902	716	234,8
30		1000		1020x10				1002	481	165,5
31	1400	700	1420x14	720x8	1395	14	14	706	1628	621,9
32		800		820x9				804	1402	560,1
33		900		920x10				902	1171	489,3
334		1000		1020x10				1002	936	408,3
35		1200		1220x11				1201	470	223,6
36	1600	800	1620x14	820x9	1595	14	14	804	1872	814,4
37		900		920x10				902	1642	739,5
38	1600	1000	1620x14	1020x10	1595	14	14	1002	1407	660,1
39		1200		1220x11				1201	941	475,1
40		1400		1420x14				1395	484	261,0



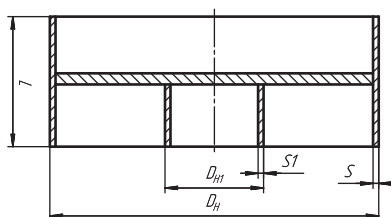
## Flat blind caps for welding OST 34-42-666-84, STO 95 133-2013



Indexing	Nom. inside diam. Dn	Dн	S	L	Steel grade	Weight, kg
01	50	57	3	125	Steel 20	0,75
02	65	76				1,10
03	80	89	3,5	130		1,63
04						1,53
05	100	108	4	130		2,30
06						2,18
07						3,14
08	125	133	5	135		3,09
09						2,89
10						5,25
11	150	159	5	135		4,66
12						4,61
13						4,33
14						12,37
15	200	219	7	145		10,22
16						8,60
17				130		8,49
18						8,02
19	250	273	8	145		18,49
20						15,23
21				130		12,76
22						12,55
23				145		11,80
24						24,65
25	300	325	9	130		20,04
26						16,68
27						16,23
28	350	377	9	145		32,71
29						26,58
30	350	377	9	130		22,12
31						21,50
32				400		426
33	32,39					
34	500	530	8	130		26,82
35						57,17
36				44,87		
37						

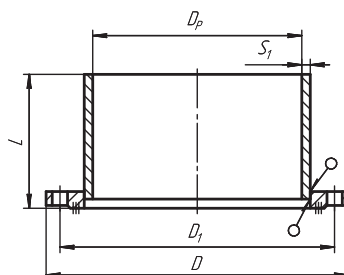
Indexing	Nom. inside diam. Dn	DH	S	L	Steel grade	Weight, kg	
38	500	530	8	130	Steel 20	36,73	
39	600	630		145			77,57
40							60,36
41	700	720					98,67
42			76,20				
43	800	820	9				127,41
44	900	920	10				159,84
45	1000	1020					192,95

## Ribbed flat blind caps for welding according to OST 34-42-667-84, STO 95 134-2013



Indexing	Nom. inside diam. Dn	DH	DH <sub>1</sub>	S	S <sub>1</sub>	L	α	Steel grade	Weight, kg				
01	350	377	89	9	9	300	60°	Steel 20	46,0				
02	400	426							59,4				
03	500	530							78,7				
04	600	630	159	8	16		45°		107,6				
05									92,5				
06	700	720							219	10	350	60°	141,4
07						127,8							
08	800	820				273	14					400	45°
09											9		176,7
10			60°	144,1									
11	900	920	10	11	350						30°	299,4	
12									16	246,5			
13									9	203,4			
14					1000	1020	273		14	400	30°	189,2	
15												16	405,9
16												9	318,0
17	1200	1220	273	14	400	30°				251,7			
18										45°	228,5		
19										16	517,6		
20	1400	1420			273	14	400		30°	417,0			
21										11	327,0		
22										11	301,8		
23	1600	1620	273	14			400		30°	888,5			
24										16	785,6		
25										11	624,0		
26					1600	1620	273		14	400	30°	532,0	
27												11	475,0
28												16	1071,0
29	1600	1620	273	14	400	30°				951,5			
30										16	750,0		
31								16		838,0			

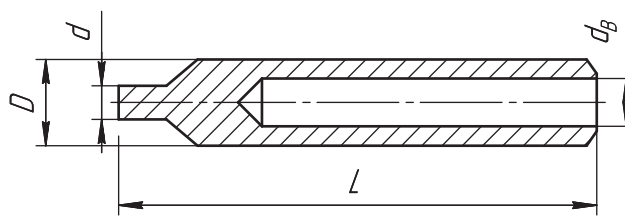
## Plate stub flanges with nozzle for welding OST 34-42-668-84, STO 95 132-2013



Indexing	Nom. inside diam. Dn	D	D <sub>1</sub>	D <sub>p</sub>	S <sub>1</sub>	L	Steel grade	Weight, kg		
01	10	90	60	11	1,5	153	Steel 20	0,73		
02	15	95	65	15				0,83		
03	20	105	75	22				1,04		
04	25	115	85	29				1,41		
05	32	135	100	35				2,06		
06	50	160	125	52	2,5	154		3,36		
07	65	180	145	71				4,10		
08	80	195	160	84				5,26		
09	100	230	190	102	3	156		7,60		
10	125	270	220	127				10,33		
11	150	300	250	151	4	158		13,22		
12	200	360	310	208				19,40		
13	250	425	370	259	5	260		32,76		
14	300	485	430	311				40,53		
15	350	550	490	361				56,10		
16	400	610	550	410				69,25		
17	10	90	60	11	1,5	153		0,64		
18	15	95	65	15				0,74		
19	20	105	75	22				1,04		
20	25	115	85	29				1,41		
21	32	135	100	35				1,87		
22	50	160	125	52	2,5	154		3,23		
23	65	180	145	71				4,30		
24	80	195	160	84				4,90		
25	100	230	190	102	3	156		6,40		
26	125	270	220	127				8,45		
27	150	300	250	151	4	158		10,90		
28	200	360	310	208				16,16		
29	250	425	370	259	5	260		28,35		
30	300	485	430	311				34,36		
31	350	550	490	361				44,62		
32	400	610	550	410				55,63		
33	500	710	650	516	5,5	310		89,89		
34	600	840	770	616				119,54		
35	10	90	60	11	1,5	153		0,56		
36	15	95	65	15				0,64		
37	20	105	75	22				0,92		
38	25	115	85	29				1,5	153	1,12
39	32	135	100	35						1,69
40	50	160	125	52	2,5	154		2,72		
41	65	180	145	71				3,68		
42	80	195	160	84				4,40		

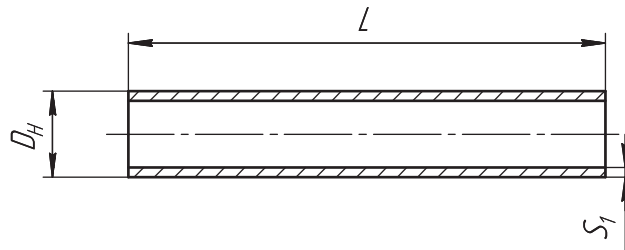
Indexing	Nom. inside diam. Dn	D	D <sub>1</sub>	Dp	S <sub>1</sub>	L	Steel grade	Weight, kg		
43	100	230	190	102	3	156	Steel 20	5,64		
44	125	270	220	127				7,48		
45	150	300	250	151	4	158		9,74		
46	200	360	310	208				14,17		
47	250	425	370	259	5	260		24,51		
48	300	485	430	311	4,5			29,48		
49	350	550	490	361	5			37,60		
50	400	610	550	410				46,20		
51	500	710	650	516	5,5	310		60,56		
52	600	840	770	616		78,84				
53	10	75	50	11	1,5	153		0,41		
54	15	80	55	15				0,46		
55	20	90	65	22	1,5	153		0,71		
56	25	100	75	29				0,87		
57	32	120	90	35				1,30		
58	50	140	110	52	2,5	154		2,00		
59	65	160	130	71				2,51		
60	80	185	150	84				3,64		
61	100	205	170	102	3	156		4,53		
62	125	235	200	127				6,00		
63	150	260	225	151	4	158		7,51		
64	200	315	280	208				12,00		
65	250	370	335	259	5	260		21,53		
66	300	435	395	311	4,5			26,86		
67	350	485	445	361	5			34,30		
68	400	535	495	410				39,80		
69	500	640	600	516	5,5	310		52,59		
70	600	755	705	616		65,40				
71	700	860	810	706		81,53				
72	800	975	920	804	6,5	312		103,81		
73	900	1075	1020	902	7,5			127,16		
74	1000	1175	1120	1020	1,5	153		144,33		
75	10	75	50	11				0,34		
76	15	80	55	15				0,42		
77	20	90	65	22				0,63		
78	25	100	75	29				0,78		
79	32	120	90	35				1,5	153	1,08
80	50	140	110	52				2,5	154	1,70
81	65	160	130	71						2,27
82	80	185	150	84				3	156	3,04
83	100	205	170	102	3,82					
84	125	235	200	127	4,68					
85	150	260	225	151	4	158		6,55		
86	200	315	280	208				10,85		
87	250	370	335	259	5	260		20,81		
88	300	435	395	311	4,5			25,91		
89	350	485	445	361	5			32,20		
90	400	535	495	410				36,25		
91	500	640	600	516	5,5	310		48,89		
92	600	755	705	616				60,54		
93	700	860	810	706				64,03		
94	800	975	920	804	6,5	312		94,31		
95	900	1075	1020	902	7,5			116,26		
96	1000	1175	1120	1020	8	315		132,56		
97	1200	1375	1320	1201				168,02		
98	1400	1575	1520	1395	10,5	315		235,69		
99	1600	1785	1730	1595				274,86		

## Nozzles for branch pipeline OST 34–42–670–84, STO 95 121–2013



Indexing	Nominal inside diam. $Dn_1$	Nozzle dimension $Dn_1 \times S_1$		$d_b$	Steel grade	Weight, kg
001	10	14	3,5	11	Steel 20	0,13
002	15	18		15		0,17
003	20	25	3	22		0,23
004	25	32	4,5	29		0,45
005	32	38	3,5	35		0,46
006	50	57	5,5	52		1,10
007	65	76	4,5	71		1,50

## Nozzles for branch pipeline OST 34–42–670–84, STO 95 121–2013

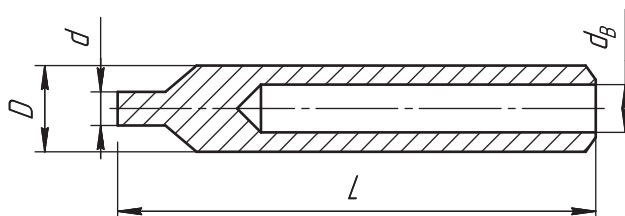


Indexing	Nominal inside diam. $Dn_1$	Nozzle dimension $Dn_1 \times S_1$		$D_p$	Steel grade	Weight, kg
008	10	14	2	11	Steel 20	0,06
009	15	18		15		0,08
010	20	25		22		0,11
011	25	32		29		0,15
012	32	38		35		0,18
013	50	57	52	52		0,43
014						0,42
015						0,41
016						0,40
017	65	76	3	71		0,60
018						0,58
019						0,57
020						0,65
021					0,55	
022					0,54	
023						

Indexing	Nominal inside diam. $D_{n1}$	Nozzle dimension $D_{n1} \times S_1$		$D_p$	Steel grade	Weight, kg
024	80	89	3,5	84	Steel 20	0,84
025						0,81
026						0,78
027						0,76
028						0,75
029						0,74
030						1,40
031	100	108	4	102		1,35
032						1,32
033						1,29
034						1,28
035						1,27
036						1,86
037						4
038	6					
039	4					
040	6					
041	125	133	4	127		1,23
042						1,81
043						1,72
044	125	133	6	127		1,64
045						2,42
046						1,62
047						4
048						6
049						4
050						6
051	4					
052	150	159	5	151		1,55
053						2,77
054						7
055						5
056						7
057						5
058						7
059	5					
060	7					
061	5					
062	7					
063	5					
064	7					
065	5					
066	200	219	7	208		6,42
067						5,97
068						5,78
069						5,67
070						5,60
071						5,51
072						5,42
073						5,36
074						5,31
075						5,25

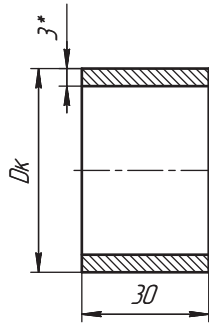
Indexing	Nominal inside diam. $Dn_1$	Nozzle dimension $Dn_1 \times S_1$		$D_p$	Steel grade	Weight, kg
076	250	273	8	259	Steel 20	9,70
077						8,97
078						8,65
079						8,47
080						8,18
081						8,02
082						7,95
083						7,87
084						7,79
085						7,74
086	7,63					
087	300	325		311	Steel 20	13,51
088						12,54
089						12,07
090	350	377	9	361	Steel 20	18,42
091						17,07
092	400	426		410		23,69

### Nozzles for branch pipeline OST 34–42–671–84, STO 95 122–2013



Indexing	Nom. inside diam. $Dn$	$D$	$d$	$db$	Steel grade	Weight, kg
01	6	12	4	6	Steel 20	0,06
02	10	18	7	11		0,13
03	15	22	11	15		0,17
04	20	28	17	22		0,23
05	25	38	24	29		0,45
06	32	42	29	35		0,46
07	50	63	47	52		1,10
08	65	80	65	71		1,50

## Backing rings for branch pipeline OST 34-42-672-84, STO 95 123-2013

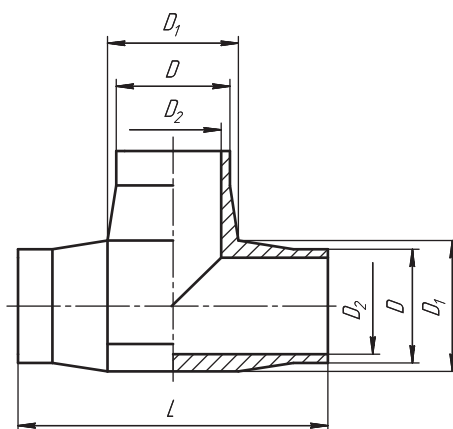


Indexing	Nominal inside diam.		Dk	Steel grade	Weight, kg	
	of the main pipeline Dn	of the nozzle Dn <sub>1</sub>				
01	125, 150	80	82	Steel 20	0,22	
02	200–250				0,20	
03	300–400				0,18	
04	500, 600					
05	700–1600					
06	150	100	100		0,27	
07	200				0,26	
08	250				0,25	
09	300–400				0,24	
10	400	100	96		0,23	
11	500–700		100			
12	700–1000		96			
13	800–1600		100		0,22	
14	200	125	121		0,36	
15						
16			125		0,33	
17						
18	300	121	0,32			
19	350, 400	125				
20	500, 600		0,30			
21	600, 900	121	0,29			
22	700–1000	125				
23	1200–1600	149	0,28			
24	250	150	145		0,45	
25			149		0,43	
26			145		0,42	
27			149		0,41	
28	350, 600	145	0,40			
29	350	149	0,39			
30	500, 600	200	145		0,38	
31					0,37	
32			700–900		149	0,36
33			100–1600			0,35
34	300	205	0,70			
35	350		0,67			
36			0,66			
37	400		0,64			



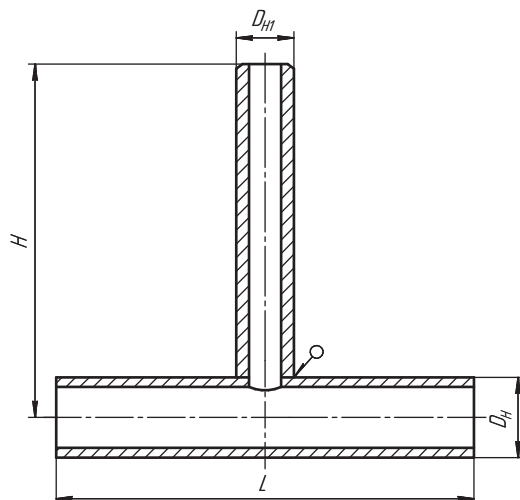
Indexing	Nominal inside diam.		Dк	Steel grade	Weight, kg
	of the main pipeline Dn	of the nozzle Dn <sub>1</sub>			
38	500	200	205	Steel 20	0,60
39	600, 700				0,57
40	800, 900				0,54
41	1000, 1200				0,52
42	1400, 1600				0,50
43	400	250	257		0,97
44	500				0,87
45	600				0,81
46	700				0,79
47	800				0,75
48	900			0,73	
49	1000, 1200			0,69	
50	1400, 1600			0,68	

## Turned equal tees OST 34-42-673-84, STO 95 124-2013



Indexing	Nom. inside diam. Dn	Dim. of connect. pipes	D	D <sub>1</sub>	D <sub>2</sub>	L	Steel grade	Weight, kg
01	10	14x2	15	20	11	30	Steel 20	0,08
02	15	18x2	19	24	15			0,09
03	20	25x2	26	30	22	35		0,13
04	25	32x2	33	38	29	45		0,21
05	32	38x2	39	45	35	50		0,45
06	50	57x3	58	65	52	65		1,18
07	65	76x3	77	88	71	90		3,62

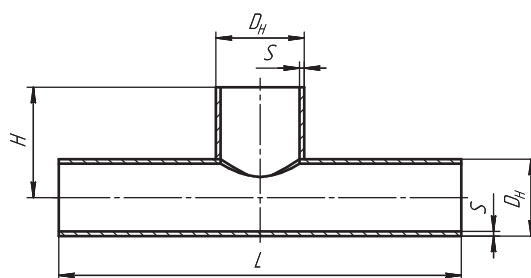
## Unequal tees with reinforced nozzles OST 34-42-674-84, STO 95 125-2013



Indexing	Nom. inside diam. DnXDn <sub>1</sub>		Dim. of connect. pipes		D <sub>H</sub>	D <sub>H1</sub>	D <sub>p</sub>	d	L	H	Steel grade	Weight, kg
			to the body	to the nozzle								
01	15	10	18x2	14x2	18	14	15	7	130	104	Steel 20	0,24
02	20		25x2		25							22
03	15	32x2		18x2	32	29	11	110	0,33			
04	10		14x2	14					7	0,36		
05	15	20	18x2	38	35	11	150	114	0,41			
06	25		25x2						25	17		0,54
07	10	15	14x2	57	52	17	200	122	0,40			
08	32		18x2						18	11		0,45
09	20	25	25x2	76	71	17	132	132	0,58			
10	25		32x2						32	24		0,75
11	10	15	14x2	76	71	7	200	132	0,93			
12	50		18x2						18	11		1,00
13	20	32	25x2	76	71	17	200	132	1,12			
14	25		32x2						32	24		1,28
15	32	25	38x2	76	71	29	200	132	1,62			
16	65		14x2						14	7		1,22
17	15	20	18x2	76	71	11	200	132	1,27			
18	65		25x2						25	17		1,40
19	25	32	32x2	76	71	24	200	132	1,56			
20	65		38x2						38	29		1,62
21	50	57x3	57	57	47	200	132	1,78				

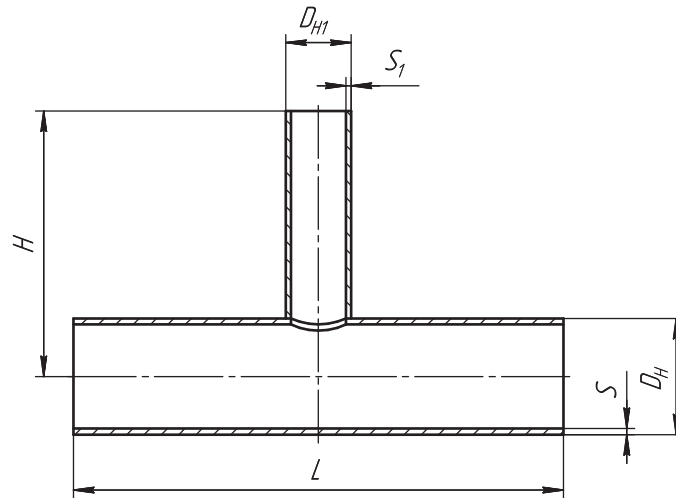
## Welded equal tees

### OST 34-42-675-84, STO 95 126-2013



Indexing	Nom. inside diam. Dn	Dim. of connect. pipes	Dh	Dp	S	L	Steel grade	Weight, kg
01	100	108x4	108	102	6	320	Steel 20	6,58
02								5,86
03								8,71
04	7,78							
05	125	133x4	133	127	7	400		13,40
06	150	159x5	159	151	9	450		26,65
07	200	219x7	219	208	11	500		47,00
08	250	273x8	273	259	13	550		74,20
09	300	325x8	325	311				63,85
10	350	377x9	377	361	14	700		99,80
11								89,10
12	400	426x9	426	410	18	800		132,20
13	400	426x9	426	410				14
14	500	530x8	530	516	18	800		183,59
15					12			137,38
16	600	630x8	630	616	18	1000		286,24
17					14			228,07
18	700	720x8	720	706	18	1100		389,90
19					14			341,46
20					14			281,56
21	800	820x9	820	804	25	1200		544,60
22					18			480,96
23					14			346,76
24	900	920x10	920	902	25	1400		812,80
25					14			748,15
26					14			479,35
27	1000	1020x10	1020	1020	25	1600		1102,00
28					14			1015,06
29					14			599,56
30	1200	1220x11	1220	1201	25	1800		1286,00
31					18			964,96
32	1400	1420x14	1420	1395	25	2100		1963,00
33					18			1353,00
34	1600	1620x14	1620	1595	25	2200		2344,00
35								25
36	500	530x8	530	516	10	800		115,79
37	600	630x8	630	616		1000		172,15
38	700	720x8	720	706		1100		213,82
39	800	820x9	820	804		1200		269,28
40	900	920x10	920	902	12	1400		421,68
41	1000	1020x10	1020	1002		1600		515,38
42	1200	1220x11	1220	1201		1800		706,62
43	1400	1420x14	1420	1395	14	2100		1114,00
44	1600	1620x14	1620	1595		2200		1320,00

## Welded unequal tees OST 34-42-676-84, STO 95 127-2013



Indexing	Nominal inside diam. DnxDn <sub>1</sub>		Dim. of connect. pipes		Dp	Dp <sub>1</sub>	L	Steel grade	Weight, kg	
			to the body	to the nozzle						
001	100	25	108x4	32x2	102	29	250	Steel 20	3,90	
002		32		38x2		35			3,91	
003		50		57x3		52	300		4,86	
004		65		76x3		71			4,91	
005		80		89x3,5		84			5,09	
006	125	20	133x4	25x2	127	22	250		4,80	
007		32		32x2		29			4,83	
008		50		38x2		35			4,84	
009		65		57x3		52	300		5,97	
010		80		76x3		71			6,02	
011		89x3,5		84		7,32				
012		100		108x4		108x4	102		350	8,28
013										7,56
014	150	20	159x5	25x2	151	22	250		6,66	
015		25		32x2		29			6,68	
016		32		38x2		35			6,69	
017		50		57x3		52	300		8,16	
018		65		76x3		71			8,21	
019		80		89x3,5		84			9,87	
020		100		108x4		108x4	102		350	11,04
021										10,33
022		125		133x4		127	400		11,50	
023		200		50		219x7	57x3		208	52
024	65		76x3	71	14,24					
025	80		89x3,5	84	350		16,86			
026	100		108x4	102			17,96			
027	125		133x4	127			400			20,59

Indexing	Nominal inside diam. DnxDn <sub>1</sub>		Dim. of connect. pipes		Dp	Dp <sub>1</sub>	L	Steel grade	Weight, kg
			to the body	to the nozzle					
028	250	50	273x8	57x3	259	52	300	23,08	
029		65		76x3		71		23,03	
030		80		89x3,5		84		27,11	
031		100		108x4		102	27,45		
032		125		133x4		127	31,24		
033		150		159x5		151	31,71		
034		300		200		325x8	219x7	311	208
035	250		273x8	259	56,37				
036	350	200	377x9	219x7	361	208	56,70		
037		250		273x8		259	78,50		
038		300		325x8		311	78,68		
039	400	125	426x9	133x4	410	127	79,82		
040		150		159x5		151	77,50		
041		200		219x7		208	77,72		
042		250		273x8		259	94,74		
043		300		325x8		311	600	95,60	
044		350		377x9		361	700	110,70	
045		250		273x8		259	600	112,48	
046	500	300	530x8	325x8	516	311	82,78		
047		350		377x9		361	700	113,67	
048		400		426x9		410	114,32		
049		200		219x7		208	600	116,72	
050	600	250	630x8	273x8	616	259	107,47		
051		300		325x8		311	700	114,20	
052		350		377x9		361	133,92		
053		400		426x9		410	136,08		
054		500		530x8		516	800	176,00	
055		600		630x8		616	800	214,22	
056	700	80	720x8	89x3,5	706	84	154,28		
057		125		133x4		127	600	105,77	
058		150		159x5		151	106,22		
059		200		219x7		208	107,88		
060		250		273x8		259	110,96		
061		300		325x8		311	750	161,59	
062		350		377x9		361	185,60		
063		400		426x9		410	186,72		
064		500		530x8		516	900	223,60	
065		600		630x8		616	900	170,22	
066	800	125	820x9	133x4	804	127	276,50		
067		150		159x5		151	600	195,92	
068		200		219x7		208	278,27		
069		250		273x8		259	228,26		
070		300		325x8		311	750	144,43	
071		350		377x9		361	144,76		
072		400		426x9		410	146,73		
073		500		530x8		516	1000	187,85	
074		600		630x8		616	1000	211,32	
075		700		720x8		706	1100	212,25	
076	800	400	820x9	426x9	804	410	297,35		
077		500		530x8		516	248,40		
078		600		630x8		616	352,58		
079		700		720x8		706	1100	246,73	
080		800		820x9		804	1100	351,28	
081		900		920x8		906	1200	284,57	
082		1000		1020x8		1006	1300	504,77	
083	1100	1120x8	1106	1400	312,13				

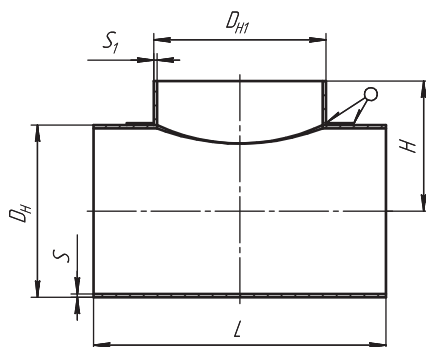
Indexing	Nominal inside diam. DnxDn <sub>1</sub>		Dim. of connect. pipes		Dp	Dp <sub>1</sub>	L	Steel grade	Weight, kg			
			to the body	to the nozzle								
084	900	150	920x10	159x5	902	151	600	Steel 20	163,75			
085		200		219x7		208			166,36			
086		250		273x8		259			210,32			
087		300		325x8		311	237,10					
088		350		377x9		361	247,00					
089		400		426x9		410	331,30					
090									1000	516	750	277,60
091		500		530x8		516	397,17					
092		600		630x8		616	317,17					
093							700			720x8	706	529,60
094		800		820x9		804						321,20
095												1200
096		125		133x4		127	466,93					
097							150		159x5	151	613,34	
098		200		219x7		208					455,14	
099							250		273x8	259	179,67	
100											300	
101		350		377x9		361	181,46					
102	400		426x9		410		262,24					
103		500		530x8		516	262,60					
104	600		630x8		616		271,80					
105		1000		1020x10		1002	361	750	272,74			
106	700		720x8		706				1000	230,47		
107										800	820x9	804
108	900		920x10		902			1400	306,87			
109									1000	1020x10	1002	804
110	1200		1220x11		1201			706				
111		300		328x8		311	850		589,57			
112	350		377x9		361			1000	354,17			
113		400		426x9		410	1200		696,41			
114	500		530x8		516			1400	520,01			
115		600		630x8		616	1200		683,33			
116	700		720x8		706			1400	514,53			
117		800		820x9		804	1200		822,90			
118	900		920x10		902			1400	621,30			
119		1000		1020x10		1002	804		1200	356,10		
120	1200		1220x11		1201			706		1400	356,70	
121		300		328x8		311	850		1000		419,70	
122	350		377x9		361			1200		1400	418,82	
123		400		426x9		410	1200		1400		528,01	
124	500		530x8		516			1200		1400	618,62	
125		600		630x8		616	1200		1400		622,70	
126	700		720x8		706			1200		1400	743,67	
127		800		820x9		804	1200		1400		971,70	
128	900		920x10		902			1200		1400	604,30	
128		1000		1020x10		1002	1200		1400		604,30	

Indexing	Nominal inside diam. DnxDn <sub>1</sub>		Dim. of connect. pipes		Dp	Dp <sub>1</sub>	L	Steel grade	Weight, kg
			to the body	to the nozzle					
129	1400	200	1420x14	219x7	1395	208	850	Steel 20	529,70
130		250		273x8		259			529,20
131		300		325x8		311			528,40
132		350		377x9		361			537,12
133		400		426x9		410			634,70
134		500		530x8		516			1000
135							616,53		
136							833,36		
137							615,36		
138		700		720x8		706	1200		1015,5
139		800		820x9		804			732,88
140									1003,6
141									977,50
142							900		920x10
143		1500		1246,76					
144				1360,50					
145	1000	1020x10	1002	1222,10					
146	1200	1220x11	1201	1800	1447,85				
147	1600	500	1620x14	530x8	1595	516	1000	704,84	
148		600		630x8		616		703,17	
149		700		720x8		706	1200	1138,93	
150		800		820x9		804		1123,25	
151		900		920x10		902	1500	1427,70	
152		1000		1020x10		1002		1410,39	
153		1200		1220x11		1201		1800	1054,09
154								1657,95	
155							1242,51		
156							1400	1420x14	1395
157					1497,78				
158	500	300	530x8	516	700	311	96,20		
159		350				377x9	361	98,55	
160		400				426x9	410	101,66	
161	600	300	630x8	616	800	311	113,22		
162		350				377x9	361	115,33	
163		400				426x9	410	133,44	
164		500				530x8	516	135,30	
165	700	300	720x8	706	900	311	137,22		
166		350				377x9	361	139,11	
167		400				426x9	410	167,86	
168		500				530x8	516	169,44	
169		600				630x8	616	178,70	
170	800	300	820x9	804	750	311	155,44		
171		350				377x9	361	157,22	
172		400				426x9	410	209,66	
173		500			530x8	516	1000	210,55	
174		600			630x8	616		218,30	
175		700			720x8	706		1100	242,05

Indexing	Nominal inside diam. DnxDn <sub>1</sub>		Dim. of connect. pipes		Dp	Dp <sub>1</sub>	L	Steel grade	Weight, kg
			to the body	to the nozzle					
176	900	300	920x10	325x8	902	311	750	Steel 20	209,22
177		350		377x9		361			206,55
178		400		426x9		410			275,32
179		500		530x8		516	1000		275,44
180		600		630x8		616			279,34
181		700		720x8		706	1200		427,11
182		800		820x9		804			342,58
183	1000	300	1020x10	325x8	1002	311	750		227,61
184		350		377x9		361			228,67
185		400		426x9		410			1000
186		500		530x8		516	303,70		
187		600		630x8		616	1200		307,26
188		700		720x8		706			366,67
189		800		820x9		804	373,64		
190		900		920x10		902	1400		426,28
191		1200		300		1220x11	325x8		1201
192	350		377x9	361	308,53				
193	400		426x9	410	1000		363,57		
194	500		530x8	516			359,20		
195	600		630x8	616	1200		365,53		
196	700		720x8	706			435,34		
197	800		820x9	804	439,76				
198	900		920x10	902	1400		556,06		
199	1000		1020x10	1002			452,84		
200	1400	300	1420x14	325x8	1395	311	850	413,75	
201		350		377x9		361		413,57	
202		400		426x9		410		1000	486,65
203		500		530x8		516	483,05		
204		600		630x8		616	1200	483,60	
205		700		720x8		706		576,07	
206		800		820x9		804	1500	575,81	
207		900		920x10		902		737,99	
208		1000		1020x10		1002	735,80		
209		1200		1220x11		1201	747,80		
210		1600		300		1620x14	325x8	1595	311
211	350		377x9	361	472,20				
212	400		426x9	410	1000		555,75		
213	500		530x8	516			566,11		
214	600		630x8	616	1200		551,78		
215	700		720x8	706			552,21		
216	800		820x9	804	1600		658,06		
217	900		920x10	902			656,83		
218	1000		1020x10	1002	838,64				
219	1200		1220x11	1201	834,39				
220	1400		1420x14	1395	1800		1006,16		
221				2100	1227,00				

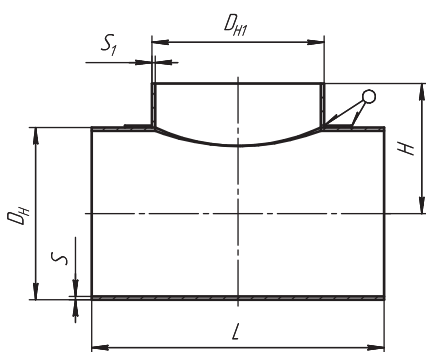


## Welded equal tees with padding OST 34-42-677-84, STO 95 128-2013



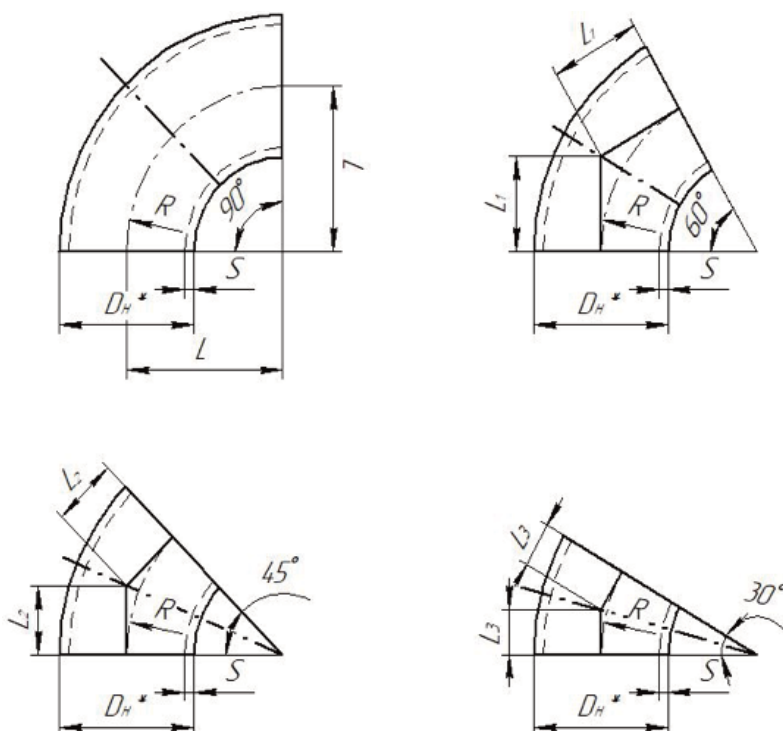
Indexing	Nom. inside diam. Dn	Dim. of connect. pipes	D <sub>H</sub>	D <sub>p</sub>	S	L	Steel grade	Weight, kg
01	65	76x3	76	71	3	350	Steel 20	2,85
02	80	89x3,5	89	84	3,5			3,83
03	125	133x4	133	127	6			10,75
04	150	159x5	159	151	7			16,10
05	200	219x7	219	208	9			37,90
06	250	273x8	273	259	11			62,90
07	1400	1420x14	1420	1395	25			2200

## Welded unequal tees with padding OST 34-42-678-84, STO 95 129-2013



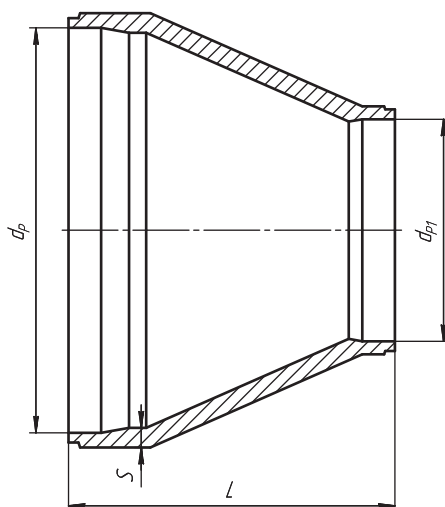
Indexing	Nominal inside diam. D <sub>n</sub> x D <sub>n1</sub>		Dim. of connect. pipes		D <sub>p</sub>	D <sub>p1</sub>	L	Steel grade	Weight, kg
			to the body	to the nozzle					
01	80	25	89x3,5	32x2	84	29	350	Steel 20	2,95
02		32		38x2		35			2,99
03		50		57x3		52			3,30
04		65		76x3		71			3,49
05	125	80	133x4	89x3,5	127	84	420	6,65	
06	150	125	159x5	133x4	151	127	450	Steel 20	10,14
07		159x5		133x4		127			13,93
08	200	150	219x7	159x5	208	151	550	24,11	

## Sharply curved bends (elbows) OST 34 10.699-97, STO 95 130-2013



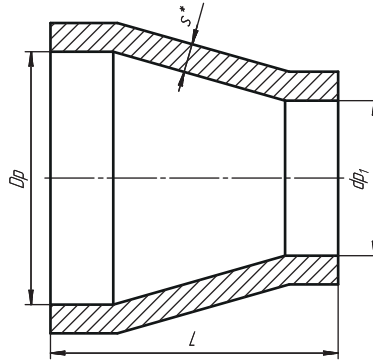
Indexing	DN	Dimension of connecting pipes DnxS1	Dн	S	L=R	L1	L2	L3	Weight, kg (for flow turning angle)				Steel grade
									90°	60°	45°	30°	
OST 34 10.699-97 STO 95 130-013	40	45x2,5	45	2,5	60	35	25	16	0,3	0,2	0,2	-	Steel 20
	50	57x3,0	57	3,0	75	43	30	20	0,5	0,3	0,3		
	65	76x3,0	76	3,5	100	57	41	27	1,0	0,7	0,5		
	80	89x3,5	89		120	69	50	32	1,4	0,9	0,7	0,5	
		89x6,0		2,3	1,6	1,2	0,8						
	100	108x4,0	108	150	87	62	40	2,5	1,7	1,3	0,9		
		108x6,0		3,6	2,4	1,8	1,2						

## Reducers OST 34 10.700–97, STO 95 131–2013



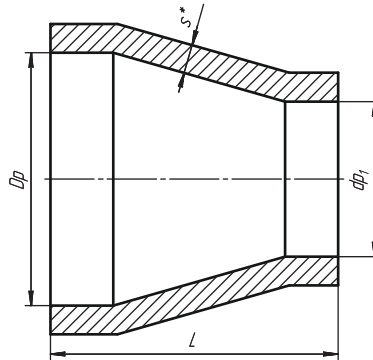
Indexing	Nom. inside diam. Dn		Outer diameter		L	S	Steel grade	Weight, kg
	Dn	dn	DH	Dp				
OST 34 10.700–97	40	25	45	32	30	2,5	Steel 20	0,1
	50	40	57	45	60	4		0,2
		32		38	50			
	65	50	76	57	70	3,5		0,4
		40		45				
	80	65	89	76	75	3,5		0,6
		50		57				
	100	80	108	89	80	4		1,0
		65		76				
	125	100	133	108	100	5		1,7
		80		89		4		1,5
	150	125	159	133	130	5		2,8
		100		108				2,6
	200	150	219	159	140	7		6,2
		125		133				4,6
	250	200	273	219	180	8		10,2
	300	250	325	273		10		15,0
		200		219	14,0			
	350	300	377	325	220	12		24,9
		250		273				23,3
400	350	426	377	300	12	33,4		
	300		325			31,2		
350	250	377	273	350	12	34,0		
	200		219			31,7		
400	350	426	377	350	12	45,5		
	300		325			42,7		

## Concentric reducers UF.ATM.A-400x300-14



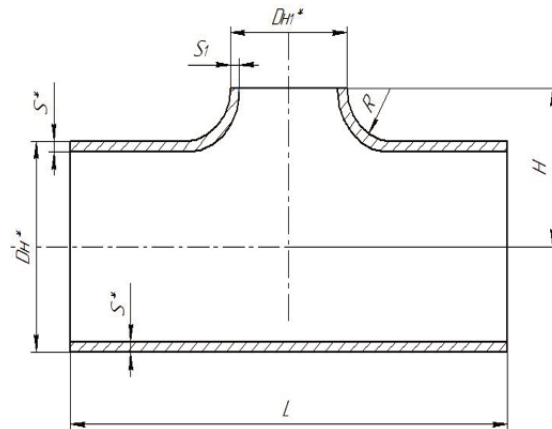
Indexing	Nominal inside diam.		Dimensions of connecting pipes		Dimensions of reducer, mm				Steel grade	Weight, kg
	Dn	Dn <sub>1</sub>			dp	dp <sub>1</sub>	S	L		
Design pressure = 0,2 MPa, design temperature = 318°C.										
UF.ATM.A-400x350-14	400	350	426x12	377x12	400	300	14	220	20	38,9

## Concentric reducers UF.ATM.A-400x350-14



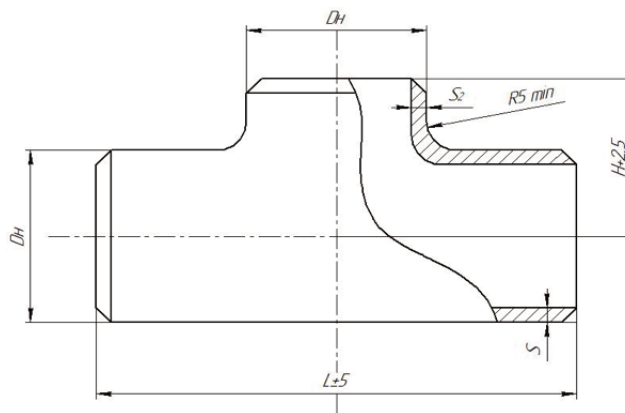
Indexing	Nominal inside diam.		Dimensions of connecting pipes		Dimensions of reducer, mm				Steel grade	Weight, kg
	Dn	Dn <sub>1</sub>			dp	dp <sub>1</sub>	S	L		
Design pressure = 0,2 MPa, design temperature = 318°C.										
UF.ATM.A-400x350-14	400	350	426x12	377x12	400	300	14	220	20	38,9

## Seamless tees STO SRO-P 60542948 0029-2013



Designation of typical size for seamless tee	DNxDN1	Dimension of pipes to be connected		DH	DH <sub>1</sub>	S	S <sub>1</sub> not less than	L	H	Steel grade
		to the body DNxS	to the nozzle DH <sub>1</sub> xS <sub>1</sub>							
01	80x50	89x3,5	57x3,0	89	57	5	2,5	200	65	Steel 20
02	80x65		76x3,0		76					
03	80x80		89x3,5		89	5,5	4,7			

## Seamless equal tees for NPP (hydroformed) Л8-151



Indexing	Nominal pressure Pn	Nom. inside diameter Dn	Dimension of connecting pipes	DH	S not less than	S <sub>2</sub> not less than	R not more than	L	H	Steel grade
Л8-151	4,0	10	14x2	14	2	1,7	10	40	15	Steel 20
Л8-151-01		15	18x2	18				45	20	
Л8-151-02		20	25x2	25				50	25	
Л8-151-03		25	32x2	32				60	30	
Л8-151-04		32	38x2	38				70	30	
Л8-151-16		50	57x3	57				100	40	
Л8-151-17		65	76x3	76				130	55	
Л8-151-18	1,6	80	89x3,5	89	3,0	3,0	20	160	70	
Л8-151-19	4,0							4,5		
Л8-151-20	1,6							3,5		
Л8-151-21	4,0	100	108x4	108	5,0	3,5	25	200		
Л8-151-22	1,6				4,0					



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# CATALOGUE

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for low-pressure pipelines  
of austenitic and pearlitic steels**

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