

GOST 17375 Elbow specification datasheet

GOST 17375 is a Russian standard that specifies the **dimensions, radius, and types of steel butt-welding elbows** used in piping systems. It defines **90° and 45° elbows**, with both **short radius (SR)** and **long radius (LR)** options, widely used in pipelines for oil, gas, chemical, and thermal industries across CIS countries and Russia.

Materials Available

- Carbon Steel: CT20, 20, 09G2S
- Stainless Steel: 12X18H10T (AISI 321), 08X18H10 (AISI 304)
- Alloy Steels: 15X5M, 12X1MΦ (on request)

GOST 17375 Elbow Dimension and Weight

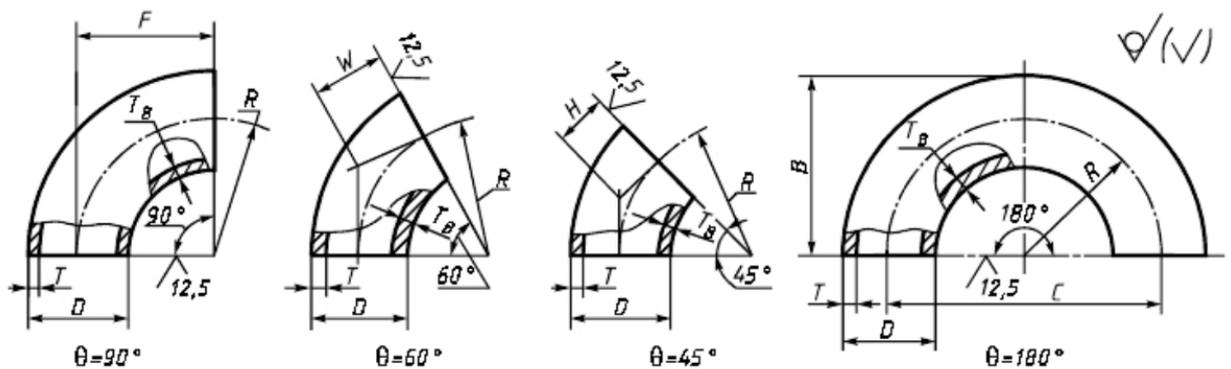


Рисунок 1

Table 1 — Branch Pipes Execution 1

DN	D	T	F = R	H	C	B	Mass, kg, elbow with θ - 45°	Mass, kg, elbow with θ - 90°	Mass, kg, elbow with θ - 180°
15	21.3	2	28	14	56	38	0.02	0.04	0.08
		3.2					0.03	0.06	0.12
		4					0.04	0.07	0.14

20	26.9	2	29	14	58	43	0.03	0.06	0.11
		3.2					0.04	0.08	0.17
		4					0.06	0.1	0.2
25	33.7	2.3	38	18	76	56	0.05	0.11	0.21
		3.2					0.08	0.16	0.32
		4.5					0.09	0.19	0.38
32	42.4	2.6	48	23	96	69	0.1	0.19	0.39
		3.6					0.13	0.26	0.52
		5					0.17	0.35	0.6
40	48.3	2.6	57	29	114	82	0.13	0.26	0.53
		3.6					0.18	0.36	0.72
		5					0.24	0.47	0.95
50	60.3	2.9	76	35	152	106	0.25	0.5	0.99
		4					0.33	0.67	1.3
		5.6					0.5	0.89	1.8
65	76.1	2.9	95	44	190	133	0.4	0.79	1.6
		5					0.72	1.5	2.9
		7.1					0.9	1.8	3.6
80	88.9	3.2	114	51	228	159	0.6	1.2	2.4
		5.6					1	2.1	4.1
		8					1.4	2.8	5.7
100	114.3	3.6	152	64	304	210	1.2	2.4	4.7
		6.3					2	4	8
		8.8					2.8	5.4	11
125	139.7	4	190	79	380	260	2	4	8
		6.3					3.1	6.2	12
		10					4.8	9.6	19
150	168.3	4.5	229	95	457	313	3.2	6.5	13
		7.1					5.1	10	20
		11					7.7	15	31
200	219.1	6.3	305	127	610	414	8	16	32
		8					9.9	20	40
		12.5					14	31	61
250	273	6.3	381	159	762	518	12	25	50
		10					19	39	78
350	355.6	8	533	222	1066	711	24	57	114
		11					39	78	156
400	406.4	8.8	610	254	1220	813	41	82	165
		12.5					58	117	234
450	457	10	686	286	1372	914	59	119	237
500	508	11	762	318	1524	1016	81	162	323
600	610	12.5	914	381	1828	1219	133	266	531

700	711	—	1067	444	2134	1422	—	—	—
800	813	—	1219	507	2238	—	—	—	—
900	914	—	1372	570	2744	—	—	—	—
1000	1016	—	1524	634	3048	—	—	—	—

Table 2 — Branch Pipes Execution 2

DN	D	T	F = R	W	H	C	B	Mass of branch pipe ($\theta = 90^\circ$, kg)
25	32	2	38	22	18	76	56	0.1
		2.5						0.2
		3						0.2
		3.5						0.2
32	38	2	48	28	23	96	69	0.2
		2.5						0.2
		3						0.2
		3.5						0.3
		4						0.3
40	45	2.5	60	35	25	120	83	0.3
		3						0.3
		3.5						0.4

		4						0.4
		5						0.5
50	57	2.5	75	43	80	150	104	0.4
		3						0.5
		3.5						0.6
		4						0.7
		4.5						0.7
		5						0.8
		5.5						0.9
		6						1
65	76	3	100	57	41	200	138	0.8
		3.5						1
		4						1.1
		4.5						1.3
		5						1.4
		5.5						1.6
		6						1.7
		7						2
		8						2.2
80	89	3	120	69	50	240	165	1.2
		3.5						1.4
		4						1.5

		4.5						1.7
		5						1.9
		5.5						2.1
		6						2.3
		7						2.7
		8						3
		3.5						2.1
		4						2.4
		4.5						2.6
		5						2.9
	102	6					201	3.4
		7						3.9
		8						4.5
		9						5
		10						5.5
		3.5						2.2
		4						2.5
		4.5						2.8
100	108	5	150	87	62	300	204	3.1
		6						3.6
		7						4.1
		8						4.7

		9						5.3
		10						5.8
	114	3.5					207	2.2
		4						2.6
		4.5						2.9
		5						3.3
		6						3.8
		7						4.4
		8						5
		9						5.7
		10						6.1
125	133	3.5	190	110	79	380	257	3.3
		4						3.8
		4.5						4.3
		5						4.8
		6						5.7
		7						6.5
125	133	8	190	110	79	380	257	7.4
		9						8.2
		10						9.1
		11						10
		12						11

		4						5.4
		4.5						6.1
		5						6.7
		6						8.1
		7						9.4
	159	8	225	130	93	450	305	11
		9						12
		10						13
		11						14
		12						16
		13						17
		14						18
150	168	4						5.6
		4.5						6.4
		5						7.1
		6						8.5
		7						9.8
		8						11.2
		9						12.5
		10						14
		11						15
		12						16

		13						17.5
		14						19
200	219	5	300	173	124	600	410	13
		6						15
		7						17
		8						20
		9						22
		10						25
		11						27
		12						29
		13						32
		14						34
		15						37
		16						39
		17						42
18	44							
250	273	6	375	217	155	750	512	23
		7						27
		8						31
		9						35
		10						39
		11						43

		12						46
		13						50
		14						54
250	273	15	375	217	155	750	512	58
		16						61
		17						66
		18						70
		20						78
		22						85
300	325	7	450	260	186	900	613	39
		8						45
		9						50
		10						56
		11						61
		12						66
		13						72
		14						77
		15						82
		16						87
		17						92
		18						96
		20						107

		22						118
		24						130
		26						141
		28						150
350	377	9	525	303	217	1050	714	68
		10						75
		11						83
		12						90
		13						97
		14						104
		15						112
		16						119
		18						133
		20						147
		22						161
		24						175
		26						188
		28						201
30	214							
32	228							
400	426	8	600	346	248	1200	813	78
		9						87

		10						97
		11						107
		12						117
		13						126
		14						135
		15						145
		16						154
		17						164
		18						173
		20						192
		22						210
		24						230
400	426	26	600	346	248	1200	813	249
		28						268
		30						286
		32						306
		34						324
500	530	9	750	433	310	1500	1015	138
		10						153
		11						168
		12						183
		13						198

		14						212
		15						227
		16						242
		17						256
		18						270
		20						298
		22						327
		24						356
		26						385
		28						413
		30						440
		32						467
		34						494
		36						520
600	630	9	900	519	373	1800	1215	198
		10						219
		11						245
		12						261
		13						282
		14						302
		15						324
		16						345

		17						366
		18						387
		20						429
		22						471
		24						513
		26						554
		28						595
		30						636
		32						678
		9						245
		10						278
		11						302
		12						329
		13						359
		14						382
	720	15	1000	577	404	2000	1360	406
		16						432
		17						452
		18						492
		20						545
		22						595
700	720	24	1000	577	404	2000	1360	674

		26						690
		28						794
		30						831
		32						852
		9						352
		10						376
		11						413
		12						457
		13						483
		14						524
		15						564
		16						598
	820	17	1200	693	485	2400	1610	630
		18						673
		20						743
		22						813
		24						897
		26						959
		28						1020
		30						1090
		32						1171