

STEEL BUTT-WELDED FLANGES
for P_{nom} from 0.1 to 20.0 MPa
(from 1 to 200 kgf/cm²)

Design and the sizes

GOST
12821-80*

In place of
GOST 12829-67 to
GOST 12833-67 and
GOST 12835-67

OKP (All-Union Product Classification Code) 37 9941

Date of introduction set by Decree No. 2240, dated 20.05.80, of the USSR State Committee for Standards,

from 01.01.83

The restriction of validity period is removed by Gosstandart Decree No. 403, dated 15.04.92

1. This Standard applies to steel welded flanges of pipe lines and connective parts, and also to conjunctive flanges of fittings, connective parts of machines, devices, fitting pipes, apparatuses and vessels, designed for nominal pressure P_{nom} from 0.1 to 20.0 MPa (from 1 to 200 kgf/cm²) and ambient temperature from 20 to 873 K (from -253 to 600 °C).

The requirements of clauses 1, 2 (except for parameter "Mass"), 3, 9 and 10 of this Standard are mandatory, and all other requirements are recommended.

(Amended Wording, Amendment No. 4).

2. The design and dimensions of flanges shall correspond to those specified on the drawing and in tables 1 to 10.

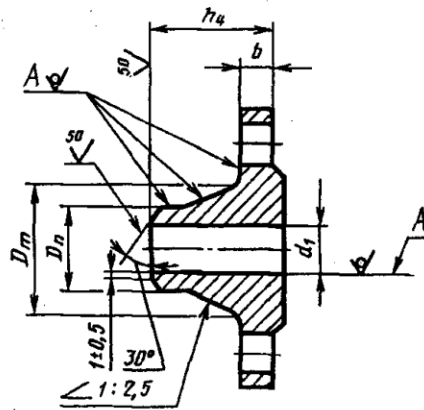
(Amended Wording, Amendments Nos. 2 and 4).

Official Edition

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**Revised Edition (December 1996) with Amendments Nos. 1, 2, 3 and 4, approved in March 1983, December 1987, September 1989 and April 1992
(IUS {Standards Information Catalog} 6-83, 4-88, 12-89 and 7-92).*



Notes:

1. The processing of surfaces *A* with roughness $Ra \leq 100$ microns shall be allowed.
2. There shall be allowed the manufacturing of flanges with other types of dressing for welding according to technical documentation, approved in accordance with the established procedure.

Table 1

Dimensions in mm

Nominal bore D_{nom}	P_{nom} 0.1 and 0.25 MPa (1 and 2.5 kgf/cm ²)									
	d_1	b	h_4	D_m	D_n	Mass, kg				
						with connective ledge	with a ledge	with a hollow	with a lug	with a groove
10	8	8	23	22	15	0.29	0.28	0.27	0.28	0.28
15	12		26	28	19	0.34	0.34	0.32	0.34	0.33
20	18		28	36	26	0.46	0.45	0.41	0.44	0.44
25	25			42	33	0.55	0.55	0.50	0.54	0.53
32	31			50	39	0.78	0.78	0.72	0.76	0.77
40	38	9	33	60	46	1.09	1.04	1.02	1.03	1.04
50	49			70	58	1.26	1.21	1.14	1.18	1.21
65	66			88	77	1.62	1.57	1.46	1.53	1.55

Dimensions in mm

Nominal bore D_{nom}	P_{nom} 0.1 and 0.25 MPa (1 and 2.5 kgf/cm ²)									
	d_1	b	h_4	D_m	D_n	Mass, kg				
						with connective ledge	with a ledge	with a hollow	with a lug	with a groove
80	78	11	35	102	90	2.43	2.30	2.26	2.29	2.30
100	96		37	122	110	2.98	2.70	2.65	2.67	2.71
125	121		148	135	3.72	3.65	3.41	3.52	3.57	
150	146		38	172	161	4.30	5.22	3.95	4.04	4.13
(175)	177	13	43	210	196	6.15	6.00	5.64	5.80	5.86
200	202		45	235	222	6.92	6.75	6.33	6.55	6.63
(225)	226	15	260	248	8.49	8.30	7.76	8.18	8.09	
250	254		288	278	9.88	9.61	9.18	9.32	9.43	
300	303		340	330	13.38	13.35	12.35	11.59	12.67	
350	351		390	382	15.97	15.93	14.90	14.63	15.00	
400	398	16	440	432	18.56	18.53	17.30	16.84	17.33	
(450)	450		50	494	484	23.63	23.70	22.35	20.22	20.94
500	501		545	535	26.76	26.60	25.00	23.11	23.76	
600	602		55	650	636	35.79	35.70	33.00	32.90	33.37
(700)	692	19	740	726	44.30	44.10	41.00	40.34	41.60	
800	792		60	844	826	46.15	55.50	52.20	51.49	52.60
(900)	892	21	944	926	66.35					
1000	992		1044	1028	73.44					
1200	1192		65	1244	1228	92.92	-	-	-	-
1400	1392	23	1445	1428	101.02					
1600	1592		1616	1628	135.27					

$P_{nom} 0.6 \text{ MPa (6 kgf/cm}^2\text{)}$
 Dimensions in mm

Nominal bore D_{nom}	d_1	b	h_4	D_m	D_n	Mass, kg				
						with connective ledge	with a ledge	with a hollow	with a lug	with a groove
10	8	10	27	22	15	0.34	0.34	0.32	0.34	0.33
15	12		28	28	19	0.40	0.40	0.38	0.40	0.40
20	18		36	36	26	0.53	0.53	0.50	0.53	0.52
25	25	12	40	42	33	0.76	0.77	0.72	0.75	0.75
32	31			33	50	39	1.10	1.08	1.04	1.08
40	38		35	60	46	1.36	1.37	1.28	1.30	1.34
50	49			70	58	1.53	1.51	1.44	1.46	1.47
65	66			88	77	1.97	2.06	1.83	1.72	1.75
80	78	13	37	102	90	2.76	2.76	2.80	2.65	2.72
100	96		38	122	110	3.35	3.04	3.03	3.03	3.04
125	121	15	40	148	135	4.66	4.24	3.66	4.50	4.55
150	146		43	172	161	5.37	5.85	4.93	5.29	5.35
(175)	177	17	47	210	196	7.32	8.10	6.92	7.11	7.16
200	202			235	222	8.37	9.35	7.75	7.98	8.05
(225)	226		260	248	9.45	9.25	8.72	8.98	9.06	
250	254	18	50	288	278	10.99	10.69	10.14	12.20	12.30
300	303			340	330	14.82	14.28	14.10	13.81	14.11
350	351			390	382	17.69	18.65	17.64	16.35	16.72
400	398			440	432	20.55	19.69	19.30	18.83	19.31
(450)	450			494	484	23.63	23.60	21.90	21.62	22.24
500	501			545	535	26.63	29.10	25.90	24.44	25.10
600	602	19	55	650	636	35.79	35.60	33.40	37.49	33.67
(700)	692			740	726	44.31	44.10	41.10	40.60	41.86
800	792			844	826	56.17	55.20	52.20	51.67	53.36
(900)	892	21	60	944	926	66.79				
1000	992			1044	1028	73.51				
1200	1192	23	70	1248	1228	111.43	-	-	-	-
1400	1392	27	85	1456	1428	156.58				
1600	1592	32	95	1660	1628	218.57				

Table 3

$P_{\text{nom}} 1.0 \text{ MPa (10 kgf/cm}^2\text{)}$
Dimensions in mm

Nominal bore D_{nom}	d_1	b	H_4	D_m	D_n	Mass, kg				
						with connective ledge	with a ledge	with a hollow	with a lug	with a groove
10	8	10	33	25	15	0.50	0.50	0.48	0.50	0.49
15	12			30	19	0.58	0.58	0.54	0.57	0.56
20	18	12	36	38	26	0.87	0.87	0.81	0.87	0.83
25	25		38	45	33	1.05	1.05	0.98	1.03	1.02
32	31	13	40	55	39	1.54	1.53	1.45	1.50	1.49
40	38			62	46	1.83	1.78	1.71	1.74	1.78
50	49			76	58	2.26	2.23	2.15	2.15	2.21
65	66	15	45	94	77	3.17	3.11	2.92	3.06	3.14
80	78		47	105	90	3.67	3.60	3.46	3.54	3.65
100	96	17	48	128	110	4.70	4.70	4.49	4.50	4.54
125	121	19	57	156	135	6.71	6.58	6.27	6.12	6.23
150	146			180	161	8.17	8.20	7.77	8.80	8.90
(175)	177			210	196	9.71	9.57	9.09	9.36	9.49
200	202			58	240	222	11.35	11.00	10.47	10.28
(225)	226	21	60	268	248	13.24	13.04	12.40	12.64	12.83
250	254			290	278	14.64	14.39	13.86	13.64	13.83
300	303	22	60	345	330	18.66	19.30	17.70	18.52	18.90
350	351			400	382	24.00	24.70	22.56	22.70	23.00
400	398	24	65	445	432	30.00	30.35	27.65	28.00	28.50
(450)	450			500	484	33.33	34.69	31.30	31.21	31.83
500	501			550	535	39.20	40.00	37.00	36.91	37.60
600	602	25	65	650	636	48.80	50.00	46.60	45.52	48.70
(700)	692			744	726	65.26	64.70	60.50	59.86	62.28
800	792	27	75	850	826	87.24	86.10	80.40	81.25	84.28
(900)	892	29	80	950	926	103.02	-	-	-	-
1000	992			1050	1028	119.19				
1200	1192			33	90	1256	1228	179.91		

P_{nom} 1.6 MPa (16 kgf/cm²)
Dimensions in mm

Nominal bore D_{nom}	d_1	b	H_4	D_m	D_n	Mass, kg				
						with connective ledge	with a ledge	with a hollow	with a lug	with a groove
10	8	12	33	26	15	0.59	0.60	0.58	0.59	0.58
15	12			30	19	0.68	0.68	0.65	0.67	0.66
20	18			36	26	0.87	0.87	0.82	0.85	0.84
25	25			38	33	1.05	1.05	0.99	1.03	1.02
32	31	13	40	55	39	1.54	1.54	1.48	1.50	1.50
40	38			64	46	1.85	1.81	1.77	1.77	1.81
50	49			76	58	2.28	2.24	2.16	2.17	2.23
65	66	15	47	94	77	3.19	3.17	3.05	3.06	3.14
80	78	17	50	110	90	4.21	4.15	4.04	4.06	4.17
100	96			130	110	4.90	4.80	4.65	4.72	4.78
125	121	19	57	156	135	6.75	6.76	6.47	6.55	6.66
150	146			180	161	8.30	8.28	7.88	7.96	8.08
(175)	177			210	196	10.37	9.79	9.32	10.05	10.17
200	202	21	58	240	222	11.79	11.72	11.28	11.04	11.20
(225)	226			268	248	14.12	14.48	13.55	13.60	13.70
250	254	23	65	292	278	17.36	15.00	14.30	16.67	16.86
300	303	24	66	346	330	22.76	22.65	20.83	21.60	22.10
350	351	28	70	400	382	32.04	32.00	29.43	30.60	33.10
400	398	32	75	450	432	43.00	42.64	41.10	41.00	41.70
(450)	450	34	85	506	484	54.00	53.50	52.20	51.40	52.40
500	501	38	90	559	535	70.97	70.32	69.00	68.00	69.90
600	602	41		660	636	99.30	97.81	96.73	94.50	96.60
(700)	692	43	95	750	726	105.90	105.97	102.00	100.70	101.10
800	792	45		850	826	130.57	118.79	115.00	124.80	127.6
(900)	892	47	110	958	926	157.83				
1000	992	49		1060	1028	203.39	-	-	-	-
1200	1192	51		125	1268	1228	284.94			

Table 5

$P_{\text{nom}} 2.5 \text{ MPa (25 kgf/cm}^2\text{)}$
Dimensions in mm

Nominal bore D_{nom}	d_1	b	H_4	D_m	D_n	Mass, kg				
						with connective ledge	with a ledge	with a hollow	with a lug	with a groove
10	8	14	33	26	15	0.68	0.69	0.66	0.68	0.67
15	12			30	19	0.79	0.78	0.75	0.80	0.78
20	18		34	26	0.97	0.99	0.93	0.97	0.95	
25	25		36	33	1.18	1.19	1.13	1.16	1.15	
32	31	16	43	56	39	1.83	1.85	1.78	1.81	1.80
40	38		45	64	46	2.19	2.16	2.10	2.11	2.15
50	49	17	45	76	58	2.78	2.76	2.47	2.69	2.75
65	66	19		50	96	77	3.71	3.62	3.60	3.55
80	78		52	110	90	4.44	4.32	4.27	4.26	4.48
100	96	21	58	132	110	6.51	6.58	6.27	6.41	6.49
125	121	23	65	160	135	9.41	9.45	9.14	9.27	9.37
150	146	75	68	186	161	12.52	12.56	11.90	12.01	12.17
(175)	177		70	216	196	13.88	13.94	13.63	13.65	13.83
200	202	27	75	245	222	17.44	17.21	16.86	16.36	16.62
(225)	226	29		270	248	21.56	21.68	21.15	22.54	22.86
250	254			300	278	24.40	24.08	23.27	25.37	25.74
300	303	32	80	352	330	33.29	32.40	31.94	32.42	33.16
350	351	36	85	406	382	46.57	45.60	44.68	45.40	46.23
400	398	40	100	464	432	64.81	63.58	62.41	63.48	64.59
(450)	450	42		515	484	72.26	71.60	70.70	70.80	71.95
500	500	44		570	535	88.91	88.20	86.50	86.48	88.08
600	600	49		115	670	636	123.70	122.00	105.70	119.50
(700)	690	53	125	766	726	166.81	164.02	162.70	157.53	160.82
800	790	55	135	874	826	213.90	211.00	209.00	210.00	214.68
(900)	892	57	145	980	926	252.91	-	-	-	-
1000	992	59	150	1084	1028	312.12	-	-	-	-
1200	1192	62	160	1288	1228	387.50	-	-	-	-

Table 6

P_{nom} 4.0 MPa (40 kgf/cm²)
Dimensions in mm

Nominal bore D_{nom}	d_1	b	h_4	D_m	D_n	Mass, kg				
						with connective ledge	with a ledge	with a hollow	with a lug	with a groove
10	8	14	33	26	15	0.68	0.69	0.66	0.68	0.67
15	12			30	19	0.79	0.78	0.75	0.80	0.78
20	18		34	38	26	0.97	0.99	0.93	0.97	0.95
25	25		36	45	33	1.18	1.19	1.13	1.16	1.15
32	31	16	43	56	39	1.83	1.85	1.78	1.81	1.80
40	38			64	46	2.19	2.16	2.10	2.11	2.15
50	48	17	45	76	58	2.81	2.79	2.68	2.72	2.78
65	66	19		50	96	77	3.71	3.72	3.59	3.60
80	78	21	55	112	90	4.80	4.81	4.60	4.69	4.80
100	96	23	65	138	110	7.40	7.06	6.82	7.20	7.28
125	120	25		160	135	10.00	10.17	9.48	9.97	10.08
150	145	27	68	186	161	13.03	13.20	12.60	12.86	13.03
(175)	177	33	85	226	196	20.75	21.26	21.10	19.70	20.00
200	200	35		250	222	24.44	24.00	23.57	24.20	24.00
(225)	226	37	95	280	248	31.33	31.10	30.50	31.20	31.60
250	252	39	98	310	278	37.59	37.30	36.50	36.90	37.40
300	301	42	112	368	330	57.10	50.60	50.30	51.10	52.20
350	351	48	116	418	382	70.34	69.60	68.00	68.10	68.80
400	398	54	135	480	432	106.76	105.50	105.00	103.80	106.00
(450)	448	56		530	484	107.00	106.00	104.80	103.80	105.00
500	495	58	140	580	535	132.33	128.00	126.00	128.00	130.00
600	595	58		686	636	180.95	195.08	165.78	182.02	179.81
(700)	695	63	160	790	726	228.25	246.86	209.59	229.47	226.93
800	795	71	190	908	826	343.69	367.40	319.93	345.08	342.20
(900)	895	74	215	1024	926	436.54				
1000	995	77	235	1140	1028	540.75	-	-	-	-
1200	1195	80	250	1350	1228	690.59				

Table 7

$P_{\text{nom}} 6.3 \text{ MPa (63 kgf/cm}^2\text{)}$
Dimensions in mm

Nominal bore D_{nom}	d_1	b	h_4	D_m	D_n	Mass, kg						
						with connective ledge	with a ledge	with a hollow	with a lug	with a groove	for a gasket with oval cross- section	for lenticular gasket
10	8	16	46	34	15	1.03	1.02	0.98	0.99	0.99	0.99	1.03
15	12			38	19	1.15	1.14	1.11	1.12	1.13	1.11	1.15
20	18	18	54	48	26	1.80	1.81	1.76	1.78	1.80	1.75	1.80
25	25	20	56	52	33	2.30	2.28	2.22	2.26	2.27	2.25	2.30
32	31	71	60	64	39	2.94	2.94	2.88	2.91	2.92	2.87	2.94
40	37		65	74	46	3.75	3.71	3.67	3.67	3.74	3.67	3.75
50	47	23	67	86	58	4.63	4.59	4.50	4.51	4.60	4.50	4.63
65	64	25	72	106	77	6.29	6.16	6.05	6.06	6.19	6.09	6.26
80	77	27		120	90	7.22	7.17	7.00	7.05	7.18	6.87	7.05
100	94	29	77	140	110	10.71	10.70	10.50	10.53	10.67	10.48	10.71
125	118	33	95	172	135	17.13	16.94	16.60	16.66	16.91	16.67	16.98
150	142	35	105	206	161	24.60	25.40	24.10	24.06	24.44	24.18	24.60
(175)	174	39		232	196	28.61	30.10	28.20	27.00	27.00	27.90	28.27
200	198	41	110	264	222	36.60	38.50	36.11	35.74	36.27	36.03	36.45
(225)	222	43	115	290	248	42.54	45.00	41.60	41.42	42.00	41.83	42.27
250	246	45		316	278	50.89	53.80	50.30	49.45	50.16	50.08	50.58
300	294	50	120	370	330	68.15	74.60	68.30	65.04	62.52	67.00	67.59
350	342	56	140	430	382	98.68	106.00	98.50	94.71	96.27	96.42	97.08
400	386	62	155	484	432	135.80	151.00	137.00	128.90	130.85	134.93	135.70
500	485	66	165	594	535	192.74	200.89	184.56	193.46	191.96	-	-
600	585	71	180	704	636	269.27	283.40	255.10	270.34	268.12		
(700)	685	76	225	820	726	300.86	-	-	-	-		
800	785	85		920	826	463.87						
(900)	885	88	265	1050	926	954.41						
1000	985	92	280	1160	1028	980.60						
1200	1185	95	315	1386	1228	1263.72						

P_{nom} 10.0 MPa (100 kgf/cm²)
Dimensions in mm

Nominal bore D_{nom}	d_1	b	h_4	D_m	D_n	Mass, kg					
						with a ledge	with a hollow	with a lug	with a groove	for a gasket with oval cross-section	for lenticular gasket
10	8	16	43	34	15	1.02	0.99	1.01	1.02	0.99	1.03
15	12	18	46	38	19	1.26	1.23	1.24	1.25	1.23	1.27
20	18	20	51	48	26	1.98	1.90	1.95	1.95	2.02	1.97
25	25	22	56	52	33	2.48	2.42	2.45	2.46	2.45	2.50
32	31		60	64	39	3.05	3.00	3.03	3.03	2.99	3.06
40	37	23	67	76	46	4.06	4.00	4.00	4.07	3.95	4.05
50	45	25	68	86	58	6.03	5.60	5.94	6.05	5.95	6.08
65	62	29	80	110	77	8.52	8.48	8.41	8.84	8.40	8.57
80	75	31	87	124	90	9.91	9.85	9.77	9.95	9.80	9.98
100	92	35	97	146	110	14.65	14.40	14.47	14.65	14.44	14.67
125	112	39	112	180	135	23.32	19.30	23.00	23.30	23.04	23.34
150	136	43	125	214	161	32.87	31.90	31.73	32.22	31.87	32.19
(175)	166	45		246	196	39.00	38.36	38.09	38.66	38.54	39.07
200	190	51	140	276	222	54.24	54.07	51.14	53.90	53.81	54.23
(225)	212	53	155	312	248	71.19	71.08	68.74	69.44	70.70	71.19
250	236	57	160	340	278	85.24	85.12	83.37	84.51	85.40	85.26
300	284	66	180	400	330	127.78	127.73	125.24	127.41	127.76	128.35
350	332	72	195	460	382	170.94	170.00	167.22	169.56	169.55	171.60
400	376	76	200	510	432	216.44	211.86	207.25	210.24	211.10	212.90

Table 9

 $P_{\text{nom}} 16.0 \text{ MPa (160 kgf/cm}^2\text{)}$

Dimensions in mm

Nominal bore D_{nom}	d_1	b	h_4	D_m	D_n	Mass, kg					
						with a ledge	with a hollow	with a lug	with a groove	for a gasket with oval cross-section	for lenticular gasket
1	12	18	50	38	19	1.27	1.24	1.24	1.21	1.23	1.27
20	18	20	56	48	26	1.98	1.94	1.95	1.9	2.03	2.08
25	25	22	56	52	33	2.48	2.44	2.45	2.38	2.44	2.50
32	31	22	65	64	39	3.07	3.01	3.04	2.96	2.98	3.06
40	37	25	72	76	46	4.01	3.98	4.28	4.20	3.97	4.06
50	45	27	75	86	58	6.43	6.40	6.49	5.95	6.30	6.49
65	62	31	85	110	77	9.38	8.64	8.36	8.23	8.88	9.10
80	75	33	90	124	90	10.40	10.30	10.16	10.02	10.20	10.46
100	92	37	100	146	110	15.40	15.22	15.18	14.93	15.09	15.41
125	112	41	115	180	135	24.87	23.10	23.89	23.59	23.82	24.19
150	136	47	130	214	161	35.04	34.40	31.84	31.65	33.92	34.48
(175)	166	51	135	246	196	43.10	42.96	42.48	42.08	42.05	43.02
200	190	57	145	276	222	60.10	60.00	58.24	57.8	57.86	58.90
(225)	212	60	160	312	248	78.80	78.70	76.81	76.31	76.54	77.70
250	236	65	165	340	278	94.40	94.20	92.48	91.93	92.16	93.41
300	284	74	185	400	330	141.00	140.00	136.69	136.06	136.56	139.20

P_{nom} 20.0 MPa (200 kgf/cm²)

Dimensions in mm

Nominal bore D_{nom}	d_1	b	h_4	D_m	D_n	Mass, kg					
						with a ledge	with a hollow	with a lug	with a groove	for a gasket with oval cross-section	for lenticular gasket
15	14	24	52	40	23	1.92	1.92	2.11	2.08	1.88	1.93
20	19	26	55	46	29	2.54	2.53	2.49	2.44	2.46	2.50
25	25	28	60	54	36	3.53	3.33	3.54	3.50	3.50	3.59
32	31	30	65	64	43	4.42	4.42	4.42	4.34	4.35	4.43
40	36	31	72	74	49	5.32	5.36	5.31	5.22	5.27	5.46
50	46	37	95	105	61	11.11	11.25	9.95	9.85	9.8	10.05
65	68	45	118	138	90	19.01	19.20	18.61	18.48	18.97	19.23
80	80	51	132	162	110	27.30	27.50	27.28	27.03	27.23	27.55
100	102	63	175	208	135	53.22	53.60	53.14	52.89	53.26	53.64
125	130	73	175	234	170	73.15	65.20	64.05	63.75	65.37	64.74
150	150	79	190	266	196	90.1	90.60	90.11	89.76	90.02	90.92
(175)	170	81	195	294	222	110.00	109.00	109.81	109.33	109.67	110.71
200	192	89	230	340	248	158.60	159.00	158.27	157.83	158.53	159.69
(225)	212	97	245	374	278	202.10	202.00	201.4	200.9		
250	254	107	300	460	330	314.50	315.70	318.03	317.49		

Notes to tables 1 to 10:

1. The flanges with nominal bores, specified in brackets, shall not be applied for the general purpose fittings.
2. The flanges with diameter $D_{nom}=80$, designed for P_{nom} up to 6.3 MPa (63 kgf/cm²), may be fabricated with diameter $D_n=95$.
3. For each nominal bore the diameter d_1 may have the same value, any from the stipulated series, for all nominal pressures, but on condition of provision the flange strength.
4. The mass is calculated according to nominal flange dimensions.
3. The flanges shall be fabricated with sealing surfaces of modifications 1 (except for flanges designed for $P_{nom} = 10.0, 16.0$ and 20.0 MPa), (100, 160 and 200 kgf/cm²), 2, 3, 4, 5, 6, 7, 8, 9 and conjunctive dimensions in accordance with GOST 12815-80.

The example of conventional designation for ordering of circular steel butt-welded flange with $D_{\text{nom}}=50$ mm, designed for $P_{\text{nom}}=1.0$ MPa (10 kgf/cm²), made from Steel 25 of modification 1 (with connective ledge):

Фланец 1-50-10 Ст 25 ГОСТ 12821-80

As above, but for square flange:

Фланец квадратный 1-50-10 Ст 25 ГОСТ 12821-80

When ordering the flanges with a lug-groove for fluoroplastic gaskets the conventional designation shall be supplemented with letter Φ (F) after designation of nominal pressure.

4. The flanges shall be fabricated by forging, punching or strip bending with consequent welding of a butt, and also by other methods.

(Amended Wording, Amendment No. 1).

5. The maximum deviations of dimensions: d_1 by H; D_m and D_n by h of the following acceptance criteria:

Up to 30 mm..... H16; h16.

Over 30 to 80 mm..... H15; h15.

Over 80 mm H14; h14

for punching method – according to accuracy rating T4 of GOST 7505-89.

b - for punched flanges, and also for those fabricated by a method of strip bending with consequent welding of a butt and with hot flattening - according to accuracy rating T4 of GOST 7505-89.

And in this case there shall be allowed the reinforcement of a seam, which shall not be taken into account when determining the maximum deviation.

(Amended Wording, Amendments Nos. 2, 3 and 4).

6. The not specified dimensions and maximum deviations shall be determined by design drawings, approved in accordance with the established procedure.

7. **(Removed, Amendment No. 2).**

8. When the inside diameters of a flange and pipe do not coincide, it shall be allowed to make a gradient junction at an angle of no more than 10°.

9. The technical requirements, material of flanges, fastening component parts and gaskets, and also the marking, packing and transportation shall be in accordance with GOST 12816-80.

10. OKP codes are specified in the Appendix.

OKP CODES

Designation of a flange	Flanges made from carbon and alloy steel	Flanges made from corrosion-resistant steel
	OKP codes	
Circular flanges		
1-10-2.5; 2-10-2.5; 3-10-2.5; 4-10-2.5; 5-10-2.5	3 994 4281 01	37 9941 5224 06
1-15-2.5; 2-15-2.5; 3-15-2.5; 4-15-2.5; 5-15-2.5	37 9941 4282 00	37 9941 5225 05
1-20-2.5; 2-20-2.5; 3-20-2.5; 4-20-2.5; 5-20-2.5	37 9941 4283 10	37 9941 5226 04
1-25-2.5; 2-25-2.5; 3-25-2.5; 4-25-2.5; 5-25-2.5	37 9941 4284 09	37 9941 5227 03
1-32-2.5; 2-32-2.5; 3-32-2.5; 4-32-2.5; 5-32-2.5	37 9941 4285 08	37 9941 5228 02
1-40-2.5; 2-40-2.5; 3-40-2.5; 4-40-2.5; 5-40-2.5	37 9941 4286 07	37 9941 5229 01
1-50-2.5; 2-50-2.5; 3-50-2.5; 4-50-2.5; 5-50-2.5	37 9941 4287 06	37 9941 5230 08
1-65-2.5; 2-65-2.5; 3-65-2.5; 4-65-2.5; 5-65-2.5	37 9941 4288 05	37 9941 5231 07
1-80-2.5; 2-80-2.5; 3-80-2.5; 4-80-2.5; 5-80-2.5	37 9941 4289 04	37 9941 5232 06
1-100-2.5; 2-100-2.5; 3-100-2.5; 4-100-2.5; 5-100-2.5	37 9941 4290 00	37 9941 5233 05
1-125-2.5; 2-125-2.5; 3-125-2.5; 4-125-2.5; 5-125-2.5	37 9941 4291 10	37 9941 5234 04
1-150-2.5; 2-150-2.5; 3-150-2.5; 4-150-2.5; 5-150-2.5	37 9941 4292 09	37 9941 5235 03
1-175-2.5; 2-175-2.5; 3-175-2.5; 4-175-2.5; 5-175-2.5	37 9941 4293 08	37 9941 5236 02
1-200-2.5; 2-200-2.5; 3-200-2.5; 4-200-2.5; 5-200-2.5	37 9941 4294 07	37 9941 5237 01
1-225-2.5; 2-225-2.5; 3-225-2.5; 4-225-2.5; 5-225-2.5	37 9941 4295 06	37 9941 5238 00
1-250-2.5; 2-250-2.5; 3-250-2.5; 4-250-2.5; 5-250-2.5	37 9941 4296 05	37 9941 5239 10
1-300-2.5; 2-300-2.5; 3-300-2.5; 4-300-2.5; 5-300-2.5	37 9941 4297 04	37 9941 5240 06
1-350-2.5; 2-350-2.5; 3-350-2.5; 4-350-2.5; 5-350-2.5	37 9941 4298 03	37 9941 5241 05
1-400-2.5; 2-400-2.5; 3-400-2.5; 4-400-2.5; 5-400-2.5	37 9941 4299 02	37 9941 5242 04
1-450-2.5; 2-450-2.5; 3-450-2.5; 4-450-2.5; 5-450-2.5	37 9941 4300 04	37 9941 5243 03

BOTOP

Designation of a flange	Flanges made from carbon and alloy steel	Flanges made from corrosion-resistant steel
	OKP codes	
Circular flanges		
1-500-2.5; 2-500-2.5; 3-500-2.5; 4-500-2.5; 5-500-2.5	37 9941 4301 03	37 9941 5244 02
1-600-2.5; 2-600-2.5; 3-600-2.5; 4-600-2.5; 5-600-2.5	37 9941 4302 02	37 9941 5245 01
1-700-2.5; 2-700-2.5; 3-700-2.5; 4-700-2.5; 5-700-2.5	37 9941 4303 01	37 9941 5246 00
1-800-2.5; 2-800-2.5; 3-800-2.5; 4-800-2.5; 5-800-2.5	37 9941 4304 00	37 9941 5247 10
1-900-2.5;	37 9941 4305 10	37 9941 5248 09
1-1000-2.5;	37 9941 4306 09	37 9941 5249 08
1-1200-2.5;	37 9941 4307 08	37 9941 5250 04
1-1400-2.5;	37 9941 4308 07	37 9941 5251 03
1-1600-2.5;	37 9941 4309 06	37 9941 5252 02
Square flanges		
1-10-2.5; 2-10-2.5; 3-10-2.5; 4-10-2.5; 5-10-2.5	37 9955 4091 04	37 9955 5091 08
1-15-2.5; 2-15-2.5; 3-15-2.5; 4-15-2.5; 5-15-2.5	37 9955 4092 03	37 9955 5092 07
1-20-2.5; 2-20-2.5; 3-20-2.5; 4-20-2.5; 5-20-2.5	37 9955 4093 02	37 9955 5093 06
1-25-2.5; 2-25-2.5; 3-25-2.5; 4-25-2.5; 5-25-2.5	37 9955 4094 01	37 9955 5094 05
1-32-2.5; 2-32-2.5; 3-32-2.5; 4-32-2.5; 5-32-2.5	37 9955 4095 00	37 9955 5095 04
1-40-2.5; 2-40-2.5; 3-40-2.5; 4-40-2.5; 5-40-2.5	37 9955 4096 10	37 9955 5096 03
1-50-2.5; 2-50-2.5; 3-50-2.5; 4-50-2.5; 5-50-2.5	37 9955 4097 09	37 9955 5097 02
1-65-2.5; 2-65-2.5; 3-65-2.5; 4-65-2.5; 5-65-2.5	37 9955 4098 08	37 9955 5098 01
1-80-2.5; 2-80-2.5; 3-80-2.5; 4-80-2.5; 5-80-2.5	37 9955 4099 07	37 9955 5099 00
1-100-2.5; 2-100-2.5; 3-100-2.5; 4-100-2.5; 5-100-2.5	37 9955 4100 06	37 9955 5100 02
Circular flanges		
1-10-6; 2-10-6; 3-10-6; 4-10-6; 5-10-6	37 9941 4310 02	37 9941 5253 01
1-15-6; 2-15-6; 3-15-6; 4-15-6; 5-15-6	37 9941 4311 01	37 9941 5254 00

Continuation

Designation of a flange					Flanges made from carbon and alloy steel	Flanges made from corrosion-resistant steel
					OKP codes	
Circular flanges						
1-20-6;	2-20-6;	3-20-6;	4-20-6;	5-20-6	37 9941 4312 00	37 9941 5255 10
1-25-6;	2-25-6;	3-25-6;	4-25-6;	5-25-6	37 9941 4313 10	37 9941 5256 09
1-32-6;	2-32-6;	3-32-6;	4-32-6;	5-32-6	37 9941 4314 09	37 9941 5257 08
1-40-6;	2-40-6;	3-40-6;	4-40-6;	5-40-6	37 9941 4315 08	37 9941 5258 07
1-50-6;	2-50-6;	3-50-6;	4-50-6;	5-50-6	37 9941 4316 07	37 9941 5259 06
1-65-6;	2-65-6;	3-65-6;	4-65-6;	5-65-6	37 9941 4317 06	37 9941 5260 02
1-80-6;	2-80-6;	3-80-6;	4-80-6;	5-80-6	37 9941 4318 05	37 9941 5261 01
1-100-6;	2-100-6;	3-100-6;	4-100-6;	5-100-6	37 9941 4319 04	37 9941 5262 00
1-125-6;	2-125-6;	3-125-6;	4-125-6;	5-125-6	37 9941 4320 00	37 9941 5263 10
1-150-6;	2-150-6;	3-150-6;	4-150-6;	5-150-6	37 9941 4321 10	37 9941 5264 09
1-175-6;	2-175-6;	3-175-6;	4-175-6;	5-175-6	37 9941 4322 09	37 9941 5265 08
1-200-6;	2-200-6;	3-200-6;	4-200-6;	5-200-6	37 9941 4323 08	37 9941 5266 07
1-225-6;	2-225-6;	3-225-6;	4-225-6;	5-225-6	37 9941 4324 07	37 9941 5267 06
1-250-6;	2-250-6;	3-250-6;	4-250-6;	5-250-6	37 9941 4325 06	37 9941 5268 05
1-300-6;	2-300-6;	3-300-6;	4-300-6;	5-300-6	37 9941 4326 05	37 9941 5269 04
1-350-6;	2-350-6;	3-350-6;	4-350-6;	5-350-6	37 9941 4327 04	37 9941 5270 00
1-400-6;	2-400-6;	3-400-6;	4-400-6;	5-400-6	37 9941 4328 03	37 9941 5271 10
1-450-6;	2-450-6;	3-450-6;	4-450-6;	5-450-6	37 9941 4329 02	37 9941 5272 09
1-500-6;	2-500-6;	3-500-6;	4-500-6;	5-500-6	37 9941 4330 09	37 9941 5273 08
1-600-6;	2-600-6;	3-600-6;	4-600-6;	5-600-6	37 9941 4331 08	37 9941 5274 07
1-700-6;	2-700-6;	3-700-6;	4-700-6;	5-700-6	37 9941 4332 07	37 9941 5275 06
1-800-6;	2-800-6;	3-800-6;	4-800-6;	5-800-6	37 9941 4333 06	37 9941 5276 05
1-900-6					37 9941 4134 05	37 9941 5277 04
1-1000-6					37 9941 4135 04	37 9941 5278 03
1-1200-6					37 9941 4136 03	37 9941 5279 02
1-1400-6					37 9941 4137 02	37 9941 5280 09
1-1600-6					37 9941 4138 01	37 9941 5281 08

Designation of a flange					Flanges made from carbon and alloy steel	Flanges made from corrosion-resistant steel
					OKP codes	
Square flanges						
1-10-6;	2-10-6;	3-10-6;	4-10-6;	5-10-6	37 9955 4101 05	37 9955 5101 01
1-15-6;	2-15-6;	3-15-6;	4-15-6;	5-15-6	37 9955 4102 04	37 9955 5102 00
1-20-6;	2-20-6;	3-20-6;	4-20-6;	5-20-6	37 9955 4103 03	37 9955 5103 10
1-25-6;	2-25-6;	3-25-6;	4-25-6;	5-25-6	37 9955 4104 02	37 9955 5104 09
1-32-6;	2-32-6;	3-32-6;	4-32-6;	5-32-6	37 9955 4105 01	37 9955 5105 08
1-40-6;	2-40-6;	3-40-6;	4-40-6;	5-40-6	37 9955 4106 00	37 9955 5106 07
1-50-6;	2-50-6;	3-50-6;	4-50-6;	5-50-6	37 9955 4107 10	37 9955 5107 06
1-65-6;	2-65-6;	3-65-6;	4-65-6;	5-65-6	37 9955 4108 09	37 9955 5108 05
1-80-6;	2-80-6;	3-80-6;	4-80-6;	5-80-6	37 9955 4109 08	37 9955 5109 04
1-100-6;	2-100-6;	3-100-6;	4-100-6;	5-100-6	37 9955 4110 04	37 9955 5110 00
Circular flanges						
1-10-10;	2-10-10;	3-10-10;	4-10-10;	5-10-10	37 9941 4339 00	37 9941 5282 07
1-15-10;	2-15-10;	3-15-10;	4-15-10;	5-15-10	37 9941 4340 07	37 9941 5283 06
1-20-10;	2-20-10;	3-20-10;	4-20-10;	5-20-10	37 9941 4341 06	37 9941 5284 05
1-25-10;	2-25-10;	3-25-10;	4-25-10;	5-25-10	37 9941 4342 05	37 9941 5285 04
1-32-10;	2-32-10;	3-32-10;	4-32-10;	5-32-10	37 9941 4343 04	37 9941 5286 03
1-40-10;	2-40-10;	3-40-10;	4-40-10;	5-40-10	37 9941 4344 03	37 9941 5287 02
1-50-10;	2-50-10;	3-50-10;	4-50-10;	5-50-10	37 9941 4345 02	37 9941 5288 01
1-65-10;	2-65-10;	3-65-10;	4-65-10;	5-65-10	37 9941 4346 01	37 9941 5289 00
1-80-10;	2-80-10;	3-80-10;	4-80-10;	5-80-10	37 9941 4347 00	37 9941 5290 07
1-100-10;	2-100-10;	3-100-10;	4-100-10;	5-100-10	37 9941 4348 10	37 9941 5291 06
1-125-10;	2-125-10;	3-125-10;	4-125-10;	5-125-10	37 9941 4349 09	37 9941 5292 05
1-150-10;	2-150-10;	3-150-10;	4-150-10;	5-150-10	37 9941 4350 05	37 9941 5293 04
1-175-10;	2-175-10;	3-175-10;	4-175-10;	5-175-10	37 9941 4351 04	37 9941 5294 03

Continuation

Designation of a flange					Flanges made from carbon and alloy steel	Flanges made from corrosion-resistant steel
					OKP codes	
Circular flanges						
1-200-10;	2-200-10;	3-200-10;	4-200-10;	5-200-10	37 9941 4352 03	37 9941 5295 02
1-225-10;	2-225-10;	3-225-10;	4-225-10;	5-225-10	37 9941 4353 02	37 9941 5296 01
1-250-10;	2-250-10;	3-250-10;	4-250-10;	5-250-10	37 9941 4354 01	37 9941 5297 00
1-300-10;	2-300-10;	3-300-10;	4-300-10;	5-300-10	37 9941 4355 00	37 9941 5298 10
1-350-10;	2-350-10;	3-350-10;	4-350-10;	5-350-10	37 9941 4356 10	37 9941 5299 09
1-400-10;	2-400-10;	3-400-10;	4-400-10;	5-400-10	37 9941 4357 09	37 9941 5300 00
1-450-10;	2-450-10;	3-450-10;	4-450-10;	5-450-10	37 9941 4358 08	37 9941 5301 10
1-500-10;	2-500-10;	3-500-10;	4-500-10;	5-500-10	37 9941 4359 07	37 9941 5302 09
1-600-10;	2-600-10;	3-600-10;	4-600-10;	5-600-10	37 9941 4360 03	37 9941 5303 08
1-700-10;	2-700-10;	3-700-10;	4-700-10;	5-700-10	37 9941 4361 02	37 9941 5304 07
1-800-10;	2-800-10;	3-800-10;	4-800-10;	5-800-10	37 9941 4362 01	37 9941 5305 06
1-900-10					37 9941 4363 00	37 9941 5306 05
1-1000-10					37 9941 4364 10	37 9941 5307 04
1-1200-10					37 9941 4365 09	37 9941 5308 03
Square flanges						
1-10-10;	2-10-10;	3-10-10;	4-10-10;	5-10-10	37 9955 4111 03	37 9955 5111 10
1-15-10;	2-15-10;	3-15-10;	4-15-10;	5-15-10	37 9955 4112 02	37 9955 5112 09
1-20-10;	2-20-10;	3-20-10;	4-20-10;	5-20-10	37 9955 4113 01	37 9955 5113 08
1-25-10;	2-25-10;	3-25-10;	4-25-10;	5-25-10	37 9955 4114 00	37 9955 5114 07
1-32-10;	2-32-10;	3-32-10;	4-32-10;	5-32-10	37 9955 4115 10	37 9955 5115 06
1-40-10;	2-40-10;	3-40-10;	4-40-10;	5-40-10	37 9955 4116 09	37 9955 5116 05
1-50-10;	2-50-10;	3-50-10;	4-50-10;	5-50-10	37 9955 4117 08	37 9955 5117 04
1-65-10;	2-65-10;	3-65-10;	4-65-10;	5-65-10	37 9955 4118 07	37 9955 5118 03
1-80-10;	2-80-10;	3-80-10;	4-80-10;	5-80-10	37 9955 4119 06	37 9955 5119 02

Designation of a flange					Flanges made from carbon and alloy steel	Flanges made from corrosion-resistant steel
					OKP codes	
Circular flanges						
1-10-16;	2-10-16;	3-10-16;	4-10-16;	5-10-16	37 9941 4366 08	37 9941 5309 02
1-15-16;	2-15-16;	3-15-16;	4-15-16;	5-15-16	37 9941 4367 07	37 9941 5310 09
1-20-16;	2-20-16;	3-20-16;	4-20-16;	5-20-16	37 9941 4368 06	37 9941 5311 08
1-25-16;	2-25-16;	3-25-16;	4-25-16;	5-25-16	37 9941 4369 05	37 9941 5312 07
1-32-16;	2-32-16;	3-32-16;	4-32-16;	5-32-16	37 9941 4370 01	37 9941 5313 06
1-40-16;	2-40-16;	3-40-16;	4-40-16;	5-40-16	37 9941 4371 00	37 9941 5314 05
1-50-16;	2-50-16;	3-50-16;	4-50-16;	5-50-16	37 9941 4372 10	37 9941 5315 04
1-65-16;	2-65-16;	3-65-16;	4-65-16;	5-65-16	37 9941 4373 09	37 9941 5316 03
1-80-16;	2-80-16;	3-80-16;	4-80-16;	5-80-16	37 9941 4374 08	37 9941 5317 02
1-100-16;	2-100-16;	3-100-16;	4-100-16;	5-100-16	37 9941 4375 07	37 9941 5318 01
1-125-16;	2-125-16;	3-125-16;	4-125-16;	5-125-16	37 9941 4376 06	37 9941 5319 00
1-150-16;	2-150-16;	3-150-16;	4-150-16;	5-150-16	37 9941 4377 05	37 9941 5320 07
1-175-16;	2-175-16;	3-175-16;	4-175-16;	5-175-16	37 9941 4378 04	37 9941 5321 06
1-200-16;	2-200-16;	3-200-16;	4-200-16;	5-200-16	37 9941 4379 03	37 9941 5322 05
1-225-16;	2-225-16;	3-225-16;	4-225-16;	5-225-16	37 9941 4380 10	37 9941 5323 04
1-250-16;	2-250-16;	3-250-16;	4-250-16;	5-250-16	37 9941 4381 09	37 9941 5324 03
1-300-16;	2-300-16;	3-300-16;	4-300-16;	5-300-16	37 9941 4382 08	37 9941 5325 02
1-350-16;	2-350-16;	3-350-16;	4-350-16;	5-350-16	37 9941 4383 07	37 9941 5326 01
1-400-16;	2-400-16;	3-400-16;	4-400-16;	5-400-16	37 9941 4384 06	37 9941 5327 00
1-450-16;	2-450-16;	3-450-16;	4-450-16;	5-450-16	37 9941 4385 05	37 9941 5328 10
1-500-16;	2-500-16;	3-500-16;	4-500-16;	5-500-16	37 9941 4386 04	37 9941 5329 09
1-600-16;	2-600-16;	3-600-16;	4-600-16;	5-600-16	37 9941 4387 03	37 9941 5330 05
1-700-16;	2-700-16;	3-700-16;	4-700-16;	5-700-16	37 9941 4388 02	37 9941 5331 04
1-800-16;	2-800-16;	3-800-16;	4-800-16;	5-800-16	37 9941 4389 01	37 9941 5332 03
1-900-16					37 9941 4390 08	37 9941 5333 02
1-1000-16					37 9941 4391 07	37 9941 5334 01
1-1200-16					37 9941 4392 06	37 9941 5335 00

Continuation

Designation of a flange					Flanges made from carbon and alloy steel	Flanges made from corrosion-resistant steel
					OKP codes	
Square flanges						
1-10-16;	2-10-16;	3-10-16;	4-10-16;	5-10-16	37 9955 4120 02	37 9955 5120 08
1-15-16;	2-15-16;	3-15-16;	4-15-16;	5-15-16	37 9955 4121 01	37 9955 5121 07
1-20-16;	2-20-16;	3-20-16;	4-20-16;	5-20-16	37 9955 4122 00	37 9955 5122 06
1-25-16;	2-25-16;	3-25-16;	4-25-16;	5-25-16	37 9955 4123 10	37 9955 5123 05
1-32-16;	2-32-16;	3-32-16;	4-32-16;	5-32-16	37 9955 4124 09	37 9955 5124 04
1-40-16;	2-40-16;	3-40-16;	4-40-16;	5-40-16	37 9955 4125 08	37 9955 5125 03
1-50-16;	2-50-16;	3-50-16;	4-50-16;	5-50-16	37 9955 4126 07	37 9955 5126 02
1-65-16;	2-65-16;	3-65-16;	4-65-16;	5-65-16	37 9955 4127 06	37 9955 5127 01
1-80-16;	2-80-16;	3-80-16;	4-80-16;	5-80-16	37 9955 4128 05	37 9955 5128 00
Circular flanges						
1-10-25;	2-10-25;	3-10-25;	4-10-25;	5-10-25	37 9941 4393 05	37 9941 5336 10
1-15-25;	2-15-25;	3-15-25;	4-15-25;	5-15-25	37 9941 4394 04	37 9941 5337 09
1-20-25;	2-20-25;	3-20-25;	4-20-25;	5-20-25	37 9941 4395 03	37 9941 5338 08
1-25-25;	2-25-25;	3-25-25;	4-25-25;	5-25-25	37 9941 4396 02	37 9941 5339 07
1-32-25;	2-32-25;	3-32-25;	4-32-25;	5-32-25	37 9941 4397 01	37 9941 5340 03
1-40-25;	2-40-25;	3-40-25;	4-40-25;	5-40-25	37 9941 4398 00	37 9941 5341 02
1-50-25;	2-50-25;	3-50-25;	4-50-25;	5-50-25	37 9941 4399 10	37 9941 5342 01
1-65-25;	2-65-25;	3-65-25;	4-65-25;	5-65-25	37 9941 4400 01	37 9941 5343 00
1-80-25;	2-80-25;	3-80-25;	4-80-25;	5-80-25	37 9941 4401 00	37 9941 5344 10
1-100-25;	2-100-25;	3-100-25;	4-100-25;	5-100-25	37 9941 4402 10	37 9941 5345 09
1-125-25;	2-125-25;	3-125-25;	4-125-25;	5-125-25	37 9941 4403 09	37 9941 5346 08
1-150-25;	2-150-25;	3-150-25;	4-150-25;	5-150-25	37 9941 4404 08	37 9941 5347 07
1-175-25;	2-175-25;	3-175-25;	4-175-25;	5-175-25	37 9941 4405 07	37 9941 5348 06
1-200-25;	2-200-25;	3-200-25;	4-200-25;	5-200-25	37 9941 4406 06	37 9941 5349 05

Designation of a flange					Flanges made from carbon and alloy steel	Flanges made from corrosion-resistant steel
					OKP codes	
Circular flanges						
1-225-25;	2-225-25;	3-225-25;	4-225-25;	5-225-25	37 9941 4407 05	37 9941 5350 01
1-250-25;	2-250-25;	3-250-25;	4-250-25;	5-250-25	37 9941 4408 04	37 9941 5351 00
1-300-25;	2-300-25;	3-300-25;	4-300-25;	5-300-25	37 9941 4409 03	37 9941 5352 10
1-350-25;	2-350-25;	3-350-25;	4-350-25;	5-350-25	37 9941 4410 10	37 9941 5353 09
1-400-25;	2-400-25;	3-400-25;	4-400-25;	5-400-25	37 9941 4411 09	37 9941 5354 08
1-450-25;	2-450-25;	3-450-25;	4-450-25;	5-450-25	37 9941 4412 08	37 9941 5355 07
1-500-25;	2-500-25;	3-500-25;	4-500-25;	5-500-25	37 9941 4413 07	37 9941 5356 06
1-600-25;	2-600-25;	3-600-25;	4-600-25;	5-600-25	37 9941 4414 06	37 9941 5357 05
1-700-25;	2-700-25;	3-700-25;	4-700-25;	5-700-25	37 9941 4415 05	37 9941 5358 04
1-800-25;	2-800-25;	3-800-25;	4-800-25;	5-800-25	37 9941 4416 04	37 9941 5359 03
1-900-25					37 9941 4417 03	37 9941 5360 10
1-1000-25					37 9941 4418 02	37 9941 5361 09
1-1200-25					37 9941 4419 01	37 9941 5362 08
Square flanges						
1-10-25;	2-10-25;	3-10-25;	4-10-25;	5-10-25	37 9955 4129 04	37 9955 5129 10
1-15-25;	2-15-25;	3-15-25;	4-15-25;	5-15-25	37 9955 4130 00	37 9955 5130 06
1-20-25;	2-20-25;	3-20-25;	4-20-25;	5-20-25	37 9955 4131 10	37 9955 5131 05
1-25-25;	2-25-25;	3-25-25;	4-25-25;	5-25-25	37 9955 4132 09	37 9955 5132 04
1-32-25;	2-32-25;	3-32-25;	4-32-25;	5-32-25	37 9955 4133 08	37 9955 5133 03
1-40-25;	2-40-25;	3-40-25;	4-40-25;	5-40-25	37 9955 4134 07	37 9955 5134 02
1-50-25;	2-50-25;	3-50-25;	4-50-25;	5-50-25	37 9955 4135 06	37 9955 5135 01
Circular flanges						
1-10-40;	2-10-40;	3-10-40;	4-10-40;	5-10-40	37 9941 4420 08	37 9941 5363 07
1-15-40;	2-15-40;	3-15-40;	4-15-40;	5-15-40	37 9941 4421 07	37 9941 5364 06

Continuation

Designation of a flange					Flanges made from carbon and alloy steel	Flanges made from corrosion-resistant steel
					OKP codes	
Circular flanges						
1-20-40;	2-20-40;	3-20-40;	4-20-40;	5-20-40	37 9941 4422 06	37 9941 5365 05
1-25-40;	2-25-40;	3-25-40;	4-25-40;	5-25-40	37 9941 4423 05	37 9941 5366 04
1-32-40;	2-32-40;	3-32-40;	4-32-40;	5-32-40	37 9941 4424 04	37 9941 5367 03
1-40-40;	2-40-40;	3-40-40;	4-40-40;	5-40-40	37 9941 4425 03	37 9941 5368 02
1-50-40;	2-50-40;	3-50-40;	4-50-40;	5-50-40	37 9941 4426 02	37 9941 5369 01
1-65-40;	2-65-40;	3-65-40;	4-65-40;	5-65-40	37 9941 4427 01	37 9941 5370 08
1-80-40;	2-80-40;	3-80-40;	4-80-40;	5-80-40	37 9941 4428 00	37 9941 5371 07
1-100-40;	2-100-40;	3-100-40;	4-100-40;	5-100-40	37 9941 4429 10	37 9941 5372 06
1-125-40;	2-125-40;	3-125-40;	4-125-40;	5-125-40	37 9941 4430 06	37 9941 5373 05
1-150-40;	2-150-40;	3-150-40;	4-150-40;	5-150-40	37 9941 4431 05	37 9941 5374 04
1-175-40;	2-175-40;	3-175-40;	4-175-40;	5-175-40	37 9941 4432 04	37 9941 5375 03
1-200-40;	2-200-40;	3-200-40;	4-200-40;	5-200-40	37 9941 4433 03	37 9941 5376 02
1-225-40;	2-225-40;	3-225-40;	4-225-40;	5-225-40	37 9941 4434 02	37 9941 5377 01
1-250-40;	2-250-40;	3-250-40;	4-250-40;	5-250-40	37 9941 4435 01	37 9941 5378 00
1-300-40;	2-300-40;	3-300-40;	4-300-40;	5-300-40	37 9941 4436 00	37 9941 5379 10
1-350-40;	2-350-40;	3-350-40;	4-350-40;	5-350-40	37 9941 4437 10	37 9941 5380 06
1-400-40;	2-400-40;	3-400-40;	4-400-40;	5-400-40	37 9941 4438 09	37 9941 5381 05
1-450-40;	2-450-40;	3-450-40;	4-450-40;	5-450-40	37 9941 4439 08	37 9941 5382 04
1-500-40;	2-500-40;	3-500-40;	4-500-40;	5-500-40	37 9941 4440 04	37 9941 5383 03
1-600-40;	2-600-40;	3-600-40;	4-600-40;	5-600-40	37 9941 4441 03	37 9941 5384 02
1-700-40;	2-700-40;	3-700-40;	4-700-40;	5-700-40	37 9941 4442 02	37 9941 5385 01
1-800-40;	2-800-40;	3-800-40;	4-800-40;	5-800-40	37 9941 4443 01	37 9941 5386 00
1-900-40;					37 9941 4444 00	37 9941 5387 10
1-1000-40					37 9941 4445 10	37 9941 5388 09
1-1200-40					37 9941 4446 09	37 9941 5389 08

Designation of a flange					Flanges made from carbon and alloy steel	Flanges made from corrosion-resistant steel	
							OKP codes
Square flanges							
1-10-40;	2-10-40;	3-10-40;	4-10-40;	5-10-40	37 9955 4136 05	37 9955 5136 00	
1-15-40;	2-15-40;	3-15-40;	4-15-40;	5-15-40	37 9955 4137 04	37 9955 5137 10	
1-20-40;	2-20-40;	3-20-40;	4-20-40;	5-20-40	37 9955 4138 03	37 9955 5138 09	
1-25-40;	2-25-40;	3-25-40;	4-25-40;	5-25-40	37 9955 4139 02	37 9955 5139 08	
1-32-40;	2-32-40;	3-32-40;	4-32-40;	5-32-40	37 9955 4140 09	37 9955 5140 04	
1-40-40;	2-40-40;	3-40-40;	4-40-40;	5-40-40	37 9955 4141 08	37 9955 5141 03	
1-50-40;	2-50-40;	3-50-40;	4-50-40;	5-50-40	37 9955 4142 07	37 9955 5142 02	
Circular flanges							
1-10-63;	2-10-63;	3-10-63;	4-10-63;	5-10-63;	37 9941 4447 08	37 9941 5390 04	
6-10-63;	7-10-63;						
1-15-63;	2-15-63;	3-15-63;	4-15-63;	5-15-63;	6-15-63	37 9941 4448 07	37 9941 5391 03
7-15-63;							
1-20-63;	2-20-63;	3-20-63;	4-20-63;	5-20-63;	6-20-63	37 9941 4449 06	37 9941 5392 02
7-20-63;							
1-25-63;	2-25-63;	3-25-63;	4-25-63;	5-25-63;	6-25-63	37 9941 4450 02	37 9941 5393 01
7-25-63;							
1-32-63;	2-32-63;	3-32-63;	4-32-63;	5-32-63;	6-32-63	37 9941 4451 01	37 9941 5394 00
7-32-63;							
1-40-63;	2-40-63;	3-40-63;	4-40-63;	5-40-63;	6-40-63	37 9941 4452 00	37 9941 5395 10
7-40-63;							
1-50-63;	2-50-63;	3-50-63;	4-50-63;	5-50-63;	6-50-63	37 9941 4453 10	37 9941 5396 09
7-50-63;							
1-65-63;	2-65-63;	3-65-63;	4-65-63;	5-65-63;	6-65-63	37 9941 4454 09	37 9941 5397 08
7-65-63;							
1-80-63;	2-80-63;	3-80-63;	4-80-63;	5-80-63;	6-80-63	37 9941 4455 08	37 9941 5398 07
7-80-63;							

Continuation

Designation of a flange					Flanges made from carbon and alloy steel	Flanges made from corrosion-resistant steel
					OKP codes	
Circular flanges						
1-100-63;	2-100-63;	3-100-63;	4-100-63;	5-100-63	37 9941 4456 07	37 9941 5399 06
7-100-63;	6-100-63					
1-125-63;	2-125-63;	3-125-63;	4-125-63;	5-125-63	37 9941 4457 06	37 9941 5400 08
6-125-63;	7-125-63;					
1-150-63;	2-150-63;	3-150-63;	4-150-63;	5-150-63	37 9941 4458 05	37 9941 5401 07
6-150-63;	7-150-63;					
1-175-63;	2-175-63;	3-175-63;	4-175-63;	5-175-63	37 9941 4459 04	37 9941 5402 06
6-175-63;	7-175-63;					
1-200-63;	2-200-63;	3-200-63;	4-200-63;	5-200-63	37 9941 4460 00	37 9941 5403 05
6-200-63;	7-200-63;	0				
1-225-63;	2-225-63;	3-225-63;	4-225-63;	5-225-63	37 9941 4461 10	37 9941 5404 04
6-225-63;	7-225-63;					
1-250-63;	2-250-63;	3-250-63;	4-250-63;	5-250-63	37 9941 4462 09	37 9941 5405 03
6-250-63;	7-250-63;					
1-300-63;	2-300-63;	3-300-63;	4-300-63;	5-300-63	37 9941 4463 08	37 9941 5406 02
6-300-63;	7-300-63;					
1-400-63;	2-400-63;	3-400-63;	4-400-63;	5-400-63	37 9941 4464 07	37 9941 5407 01
6-400-63;	7-400-63;					
1-500-63;	2-500-63;	3-500-63;	4-500-63;	5-500-63	37 9941 4465 06	37 9941 5408 00
1-600-63;	2-600-63;	3-600-63;	4-600-63;	5-600-63	37 9941 4466 05	37 9941 5409 10
1-700-63					37 9941 4467 04	37 9941 5410 06
1-800-63					37 9941 4468 03	37 9941 5411 05
1-900-63					37 9941 4469 02	37 9941 5412 04
1-1000-63					37 9941 4470 09	37 9941 5413 03
1-1200-63					37 9941 4471 08	37 9941 5414 02

Designation of a flange						Flanges made from carbon and alloy steel	Flanges made from corrosion-resistant steel
						OKP codes	
Circular flanges							
2-10-100;	3-10-100;	4-10-100;	5-10-100;	6-10-100;	7-10-100	37 9941 4472 07	37 9941 5415 01
2-15-100;	3-15-100;	4-15-100;	5-15-100;	6-15-100;	7-15-100	37 9941 4473 06	37 9941 5416 00
2-20-100;	3-20-100;	4-20-100;	5-20-100;	6-20-100;	7-20-100	37 9941 4474 05	37 9941 5417 10
2-25-100;	3-25-100;	4-25-100;	5-25-100;	6-25-100;	7-25-100	37 9941 4475 04	37 9941 5418 09
2-32-100;	3-32-100;	4-32-100;	5-32-100;	6-32-100;	7-32-100	37 9941 4476 03	37 9941 5419 08
2-40-100;	3-40-100;	4-40-100;	5-40-100;	6-40-100;	7-40-100	37 9941 4477 02	37 9941 5420 04
2-50-100;	3-50-100;	4-50-100;	5-50-100;	6-50-100;	7-50-100	37 9941 4478 01	37 9941 5421 03
2-65-100;	3-65-100;	4-65-100;	5-65-100;	6-65-100;	7-65-100	37 9941 4479 00	37 9941 5422 02
2-80-100;	3-80-100;	4-80-100;	5-80-100;	6-80-100;	7-80-100	37 9941 4480 07	37 9941 5423 01
2-100-100;	3-100-100;	4-100-100;	5-100-100;	6-100-100;	7-100-100	37 9941 4481 06	37 9941 5424 00
2-125-100;	3-125-100;	4-125-100;	5-125-100;	6-125-100;	7-125-100	37 9941 4482 05	37 9941 5425 10
2-150-100;	3-150-100;	4-150-100;	5-150-100;	6-150-100;	7-150-100	37 9941 4483 04	37 9941 5426 09
2-175-100;	3-175-100;	4-175-100;	5-175-100;	6-175-100;	7-175-100	37 9941 4484 03	37 9941 5427 08
2-200-100;	3-200-100;	4-200-100;	5-200-100;	6-200-100;	7-200-100	37 9941 4485 02	37 9941 5428 07
2-225-100;	3-225-100;	4-225-100;	5-225-100;	6-225-100;	7-225-100	37 9941 4486 01	37 9941 5429 06
2-250-100;	3-250-100;	4-250-100;	5-250-100;	6-250-100;	7-250-100	37 9941 4487 00	37 9941 5430 02
2-300-100;	3-300-100;	4-300-100;	5-300-100;	6-300-100;	7-300-100	37 9941 4488 10	37 9941 5431 01
2-350-100;	3-350-100;	4-350-100;	5-350-100;	6-350-100;	7-350-100	37 9941 4489 09	37 9941 5432 00
2-400-100;	3-400-100;	4-400-100;	5-400-100;	6-400-100;	7-400-100	37 9941 4490 05	37 9941 5433 10
2-15-160;	3-15-160;	4-15-160;	5-15-160;	6-15-160;	7-15-160	37 9941 4491 04	37 9941 5434 09
2-20-160;	3-20-160;	4-20-160;	5-20-160;	6-20-160;	7-20-160	37 9941 4492 03	37 9941 5435 08
2-25-160;	3-25-160;	4-25-160;	5-25-160;	6-25-160;	7-25-160	37 9941 4493 02	37 9941 5436 07
2-32-160;	3-32-160;	4-32-160;	5-32-160;	6-32-160;	7-32-160	37 9941 4494 01	37 9941 5437 06
2-40-160;	3-40-160;	4-40-160;	5-40-160;	6-40-160;	7-40-160	37 9941 4495 00	37 9941 5438 05
2-50-160;	3-50-160;	4-50-160;	5-50-160;	6-50-160;	7-50-160	37 9941 4496 10	37 9941 5439 04

Continuation

Designation of a flange	Flanges made from carbon and alloy steel	Flanges made from corrosion-resistant steel
	OKP codes	
Circular flanges		
2-65-160; 3-65-160; 4-65-160; 5-65-160; 6-65-160; 7-65-160	37 9941 4497 09	37 9941 5440 00
2-80-160; 3-80-160; 4-80-160; 5-80-160; 6-80-160; 7-80-160	37 9941 4498 08	37 9941 5441 10
2-100-160; 3-100-160; 4-100-160; 5-100-160; 6-100-160; 7-100-160	37 9941 4499 07	37 9941 5442 09
2-125-160; 3-125-160; 4-125-160; 5-125-160; 6-125-160; 7-125-160	37 9941 4500 09	37 9941 5443 08
2-150-160; 3-150-160; 4-150-160; 5-150-160; 6-150-160; 7-150-160	37 9941 4501 08	37 9941 5444 07
2-175-160; 3-175-160; 4-175-160; 5-175-160; 6-175-160; 7-175-160	37 9941 4502 07	37 9941 5445 06
Circular flanges		
2-200-160; 3-200-160; 4-200-160; 5-200-160; 6-200-160; 7-200-160	37 9941 4503 06	37 9941 5446 05
2-225-160; 3-225-160; 4-225-160; 5-225-160; 6-225-160; 7-225-160	37 9941 4504 05	37 9941 5447 04
2-250-160; 3-250-160; 4-250-160; 5-250-160; 6-250-160; 7-250-160	37 9941 4505 04	37 9941 5448 03
2-300-160; 3-300-160; 4-300-160; 5-300-160; 6-300-160; 7-300-160	37 9941 4506 03	37 9941 5449 02
2-15-200; 3-15-200; 4-15-200; 5-15-200; 6-15-200; 7-15-200	37 9941 4507 02	37 9941 5450 09
2-20-200; 3-20-200; 4-20-200; 5-20-200; 6-20-200; 7-20-200	37 9941 4508 01	37 9941 5451 08
2-25-200; 3-25-200; 4-25-200; 5-25-200; 6-25-200; 7-25-200	37 9941 4509 00	37 9941 5452 07
2-32-200; 3-32-200; 4-32-200; 5-32-200; 6-32-200; 7-31-200	37 9941 4510 07	37 9941 5453 06

Designation of a flange					Flanges made from carbon and alloy steel	Flanges made from corrosion-resistant steel
					OKP codes	
Circular flanges						
2-40-200; 7-40-200	3-40-200;	4-40-200;	5-40-200;	6-40-200;	37 9941 4511 06	37 9941 5454 05
2-50-200; 7-50-200	3-50-200;	4-50-200;	5-50-200;	6-50-200;	37 9941 4512 05	37 9941 5455 04
2-65-200; 7-65-200	3-65-200;	4-65-200;	5-65-200;	6-65-200;	37 9941 4513 04	37 9941 5456 03
2-80-200; 7-80-200	3-80-200;	4-80-200;	5-80-200;	6-80-200;	37 9941 4514 03	37 9941 5457 02
Circular flanges						
2-100-200; 6-100-200;	3-100-200; 7-100-200	4-100-200;	5-100-200;		37 9941 4515 02	37 9941 5458 01
2-125-200; 6-125-200;	3-125-200; 7-125-200	4-125-200;	5-125-200;		37 9941 4516 01	37 9941 5459 00
2-150-200; 6-150-200;	3-150-200; 7-150-200	4-150-200;	5-150-200;		37 9941 4517 00	37 9941 5460 07
2-175-200; 6-175-200;	3-175-200; 7-175-200	4-175-200;	5-175-200;		37 9941 4518 10	37 9941 5461 06
2-200-200; 6-200-200;	3-200-200; 7-200-200	4-200-200;	5-200-200;		37 9941 4519 09	37 9941 5462 05
2-225-200;	3-225-200;	4-225-200;	5-225-200		37 9941 4520 05	37 9941 5463 04
2-250-200;	3-250-200;	4-250-200;	5-250-200		37 9941 4521 04	37 9941 5464 03