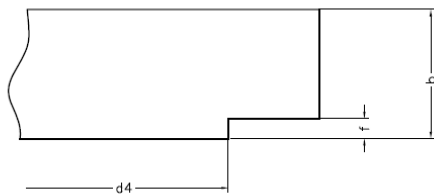


## Flange Rating cl. 150

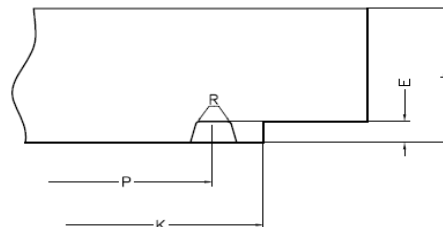
Process Connection size		1/2"	3/4"	1"	1.25"	1.5"	2"	2.5"	3"	4"
Outside diameter flange	O	90	100	110	115	125	150	180	190	230
Minimum thickness excl. RF	Tf	8.0	8.9	9.6	11.2	12.7	14.3	15.9	17.5	22.3
Groove number		-	-	15	17	19	22	25	29	36
Pitch	P	-	-	47.63	57.15	65.07	82.55	101.6	114.3	149.23
Depth	E	-	-	6.35	6.35	6.35	6.35	6.35	6.35	6.35
Width	F	-	-	8.74	8.74	8.74	8.74	8.74	8.74	8.74
Diameter raised portion	K	-	-	63.5	73	82.5	102	121	133	171
Radius at bottom	R	-	-	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Facing height: RF	f	2	2	2	2	2	2	2	2	2
Facing height: SMF, STF	f	7	7	7	7	7	7	7	7	7
Facing height: SFF, SGF	f	5	5	5	5	5	5	5	5	5
Outside diameter RF	d4	34.9	42.9	50.8	63.5	73	92.1	104.8	127	157.2
Outside diameter SMF	d4	18.3	23.8	30.2	38.1	44.4	57.2	68.3	84.1	109.5
Outside diameter SFF	X	19.9	25.4	31.8	39.7	46	58.8	69.8	85.7	111.1
Outside diameter SGF	Y	36.5	44.4	49.2	58.7	65.1	84.1	96.8	119.1	146
Outside diameter STF	T	35.1	42.9	47.8	57.2	63.5	82.6	95.2	117.5	144.5
Inside diameter STF	U	25.4	33.3	38.1	47.6	54	73	85.7	108	131.8
Inside diameter SGF	Z	23.8	31.8	36.5	46	52.4	71.4	84.1	106.4	130.2
Diameter bolt circle		60.3	69.9	79.4	88.9	98.4	120.7	139.7	152.4	190.5
# bolt holes		4	4	4	4	4	4	4	4	8
Size bolt holes		5/8	5/8	5/8	5/8	5/8	3/4	3/4	3/4	3/4

Note: to calculate size b use  $Tf + f$  for the specific facing  
 All dimensions are a reference to the ASME B16.5  
 All dimensions in mm

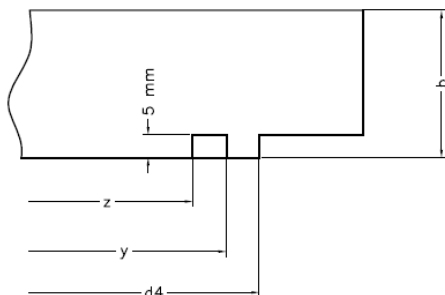
## Facing RF/SMF



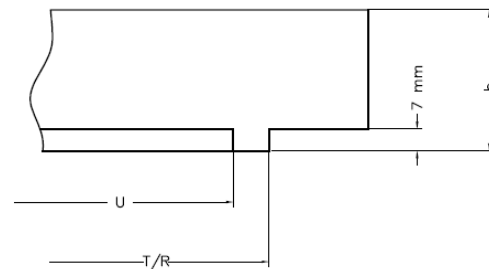
## Facing RJF



## Facing SGF



## Facing STF



## Flange Rating cl. 300

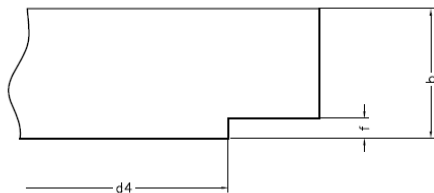
Process Connection size		1/2"	3/4"	1"	1.25"	1.5"	2"	2.5"	3"	4"
Outside diameter flange	O	95	115	125	135	155	165	190	210	255
Minimum thickness excl. RF	Tf	12.7	14.3	15.9	17.5	19.1	20.7	23.9	27	32.2
Groove number		11	13	16	18	20	23	26	30	37
Pitch	P	34.14	42.88	50.8	60.33	68.27	82.55	101.6	123.83	149.23
Depth	E	5.54	6.35	6.35	6.35	6.35	7.92	7.92	7.92	7.92
Width	F	7.14	8.74	8.74	8.74	8.74	11.91	11.91	11.91	11.91
Diameter raised portion	K	51	63.5	70	79.5	90.5	108	127	146	175
Radius at bottom	R	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Facing height: RF	f	2	2	2	2	2	2	2	2	2
Facing height: LMF, SMF, LTF, STF	f	7	7	7	7	7	7	7	7	7
Facing height: LGF, SGF	f	5	5	5	5	5	5	5	5	5
Outside diameter RF, LMF, LTF	d4/R	34.9	42.9	50.8	63.5	73	92.1	104.8	127	157.2
Outside diameter SMF	d4	18.3	23.8	30.2	38.1	44.4	57.2	68.3	84.1	109.5
Outside diameter LGF	W	36.5	44.4	52.4	65.1	74.6	93.7	106.4	128.6	158.8
Outside diameter SFF	X	19.9	25.4	31.8	39.7	46	58.8	69.8	85.7	111.1
Outside diameter SGF	Y	36.5	44.4	49.2	58.7	65.1	84.1	96.8	119.1	146
Outside diameter STF	T	35.1	42.9	47.8	57.2	63.5	82.6	95.2	117.5	144.5
Inside diameter STF, LTF	U	25.4	33.3	38.1	47.6	54	73	85.7	108	131.8
Inside diameter SGF, LGF	Z	23.8	31.8	36.5	46	52.4	71.4	84.1	106.4	130.2
Diameter bolt circle		66.7	82.6	88.9	98.4	114.3	127	149.2	168.3	200
# bolt holes		4	4	4	4	4	8	8	8	8
Size bolt holes		5/8	3/4	3/4	3/4	7/8	3/4	7/8	7/8	7/8

Note: to calculate size b use Tf + f for the specific facing

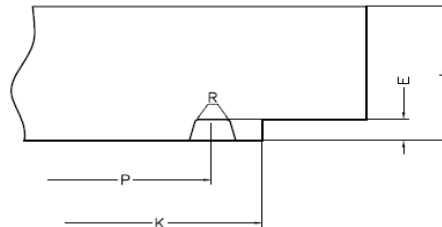
All dimensions are a reference to the ASME B16.5

All dimensions in mm

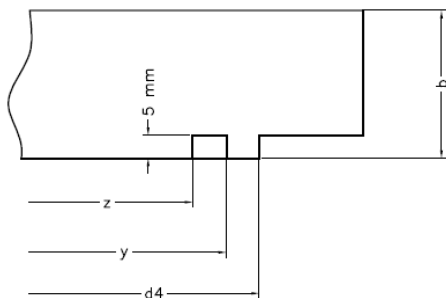
## Facing RF/SMF/LMF



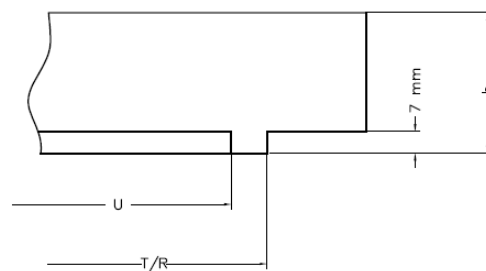
## Facing RJF



## Facing LGF/SGF



## Facing STF/LTF



## Flange Rating cl. 400-600

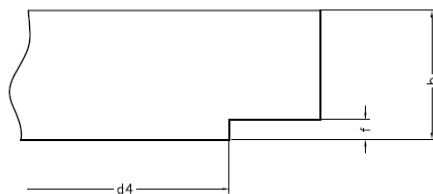
Process Connection size		1/2"	3/4"	1"	1.25"	1.5"	2"	2.5"	3"	4"	4"
										cl.400	cl.600
Outside diameter flange	O	95	115	125	135	155	165	190	210	255	275
Minimum thickness excl. RF	Tf	14.3	15.9	17.5	20.7	22.3	25.4	28.6	31.8	35	38.1
Groove number		11	13	16	18	20	23	26	30	37	37
Pitch	P	34.14	42.88	50.8	60.33	68.27	80.55	101.6	123.83	149.23	149.23
Depth	E	5.54	6.35	6.35	6.35	6.35	7.92	7.92	7.92	7.92	7.92
Width	F	7.14	8.74	8.74	8.74	8.74	11.91	11.91	11.91	11.91	11.91
Diameter raised portion	K	51	63.5	70	79.5	90.5	108	127	146	175	175
Radius at bottom	R	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Facing height: RF, LMF, SMF, LTF, STF	f	7	7	7	7	7	7	7	7	7	7
Facing height: SFF, LGF, SGF	f	5	5	5	5	5	5	5	5	5	5
Outside diameter RF, LMF, LTF	d4/R	34.9	42.9	50.8	63.5	73	92.1	104.8	127	157.2	157.2
Outside diameter SMF	d4	18.3	23.8	30.2	38.1	44.4	57.2	68.3	84.1	109.5	109.5
Outside diameter LGF	W	36.5	44.4	52.4	65.1	74.6	93.7	106.4	128.6	158.8	158.8
Outside diameter SFF	X	19.9	25.4	31.8	39.7	46	58.8	69.8	85.7	111.1	111.1
Outside diameter SGF	Y	36.5	44.4	49.2	58.7	65.1	84.1	96.8	119.1	146	146
Outside diameter STF	T	35.1	42.9	47.8	57.2	63.5	82.6	95.2	117.5	144.5	144.5
Inside diameter STF, LTF	U	25.4	33.3	38.1	47.6	54	73	85.7	108	131.8	131.8
Diameter bolt circle		66.7	82.6	88.9	98.4	114.3	127	149.2	168.3	200	215.9
# bolt holes		4	4	4	4	4	8	8	8	8	8
Size bolt holes		5/8	3/4	3/4	5/8	7/8	3/4	7/8	7/8	1	1

Note: to calculate size b use Tf + f for the specific facing

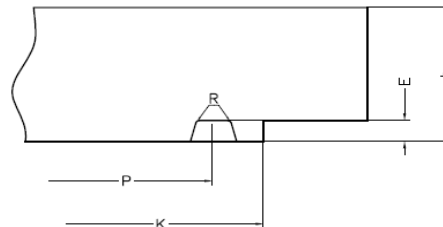
All dimensions are a reference to the ASME B16.5

All dimensions in mm

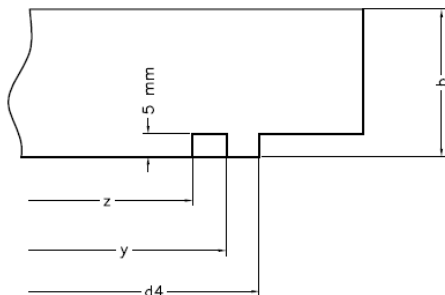
## Facing RF/SMF/LMF



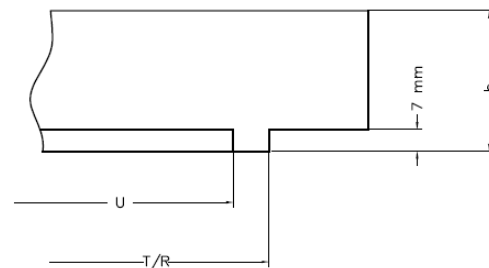
## Facing RJF



## Facing LGF/SGF



## Facing STF/LTF

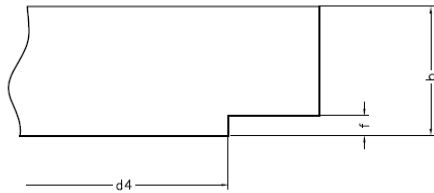


Flange Rating cl. 900-1500

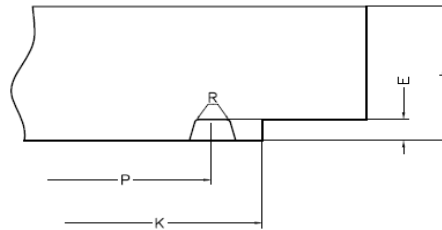
Process Connection size		1/2"	3/4"	1"	1.25"	1.5"	2"	2.5"	3"	3"	4"	4"
									cl.900	cl.1500	cl.900	cl.1500
Outside diameter flange	O	120	130	150	160	180	215	245	240	265	290	310
Minimum thickness excl. RF	Tf	22.3	25.4	28.6	28.6	31.8	38.1	41.3	38.1	47.7	44.5	54.0
Groove number		12	14	16	18	20	24	27	30	35	37	39
Pitch	P	39.67	44.45	50.8	60.33	68.27	95.25	107.95	123.83	136.53	149.23	161.93
Depth	E	6.35	6.35	6.35	6.35	6.35	7.92	7.92	7.92	7.92	7.92	7.92
Width	F	8.74	8.74	8.74	8.74	8.74	11.91	11.91	11.91	11.91	11.91	11.91
Diameter raised portion	K	60.5	66.5	71.5	81	92	124	137	156	168	181	194
Radius at bottom	R	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Facing height: RF, LMF, SMF, LTF, STF	f	7	7	7	7	7	7	7	7	7	7	7
Facing height: LFF, SFF, LGF, SGF	f	5	5	5	5	5	5	5	5	5	5	5
Outside diameter RF, LMF, LTF	d4/R	34.9	42.9	50.8	63.5	73	92.1	104.8	127	127	157.2	157.2
Outside diameter SMF	d4	18.3	23.8	30.2	38.1	44.4	57.2	68.3	84.1	84.1	109.5	109.5
Outside diameter LFF, LGF	W	36.5	44.4	52.4	65.1	74.6	93.7	106.4	128.6	128.6	158.8	158.8
Outside diameter SFF	X	19.9	25.4	31.8	39.7	46	58.8	69.8	85.7	85.7	111.1	111.1
Outside diameter SGF	Y	36.5	44.4	49.2	58.7	65.1	84.1	96.8	119.1	119.1	146	146
Outside diameter STF	T	35.1	42.9	47.8	57.2	63.5	82.6	95.2	117.5	117.5	144.5	144.5
Inside diameter STF, LTF	U	25.4	33.3	38.1	47.6	54	73	85.7	108	108	131.8	131.8
Inside diameter SGF, LGF	Z	23.8	31.8	36.5	46	52.4	71.4	84.1	106.4	106.4	130.2	130.2
Diameter bolt circle		82.6	88.9	101.6	111.1	123.8	165.1	190.5	190.5	203.2	235	241.3
# bolt holes		4	4	4	4	4	8	8	8	8	8	8
Size bolt holes		7/8	7/8	1	1	1 1/8	1	1 1/8	1	1 1/4	1 1/4	1 3/8

Note: to calculate size b use Tf + f for the specific facing  
 All dimensions are a reference to the ASME B16.5  
 All dimensions in mm

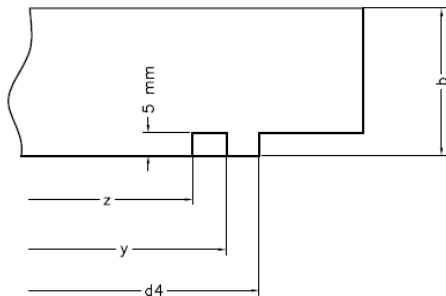
Facing RF/SMF/LMF



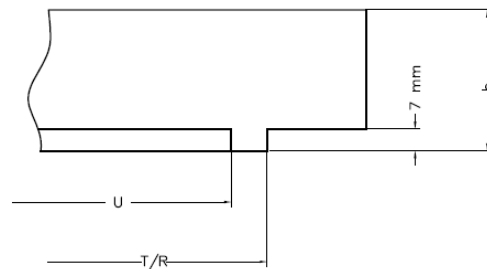
Facing RJF



Facing LGF/SGF



Facing STF/LTF

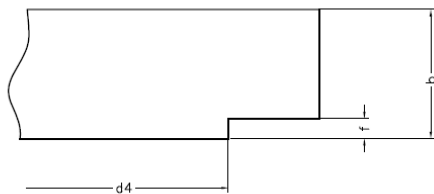


## Flange Rating cl. 2500

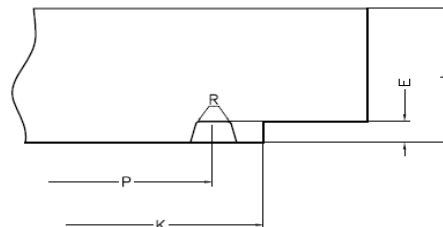
Process Connection size		1/2"	3/4"	1"	1.25"	1.5"	2"	2.5"	3"	4"
Outside diameter flange	O	135	140	160	185	205	235	265	305	355
Minimum thickness excl. RF	Tf	30.2	31.8	35	38.1	44.5	50.9	57.2	66.7	76.2
Groove number		13	16	18	21	24	26	28	32	38
Pitch	P	42.88	50.8	60.33	72.23	95.25	101.6	111.13	127	157.18
Depth	E	6.35	6.35	6.35	7.92	7.92	7.92	9.53	9.53	11.13
Width	F	8.74	8.74	8.74	11.91	11.91	11.91	13.49	13.49	16.66
Diameter raised portion	K	65	73	82.5	102	114	133	149	168	203
Radius at bottom	R	0.8	0.8	0.8	0.8	0.8	0.8	1.5	1.5	1.5
Facing height: RF, LMF, SMF, LTF, STF	f	7	7	7	7	7	7	7	7	7
Facing height: LFF, SFF, LGF, SGF	f	5	5	5	5	5	5	5	5	5
Outside diameter RF, LMF, LTF	d4/R	34.9	42.9	50.8	63.5	73	92.1	104.8	127	157.2
Outside diameter SMF	d4	18.3	23.8	30.2	38.1	44.4	57.2	68.3	84.1	109.5
Outside diameter LFF, LGF	W	36.5	44.4	52.4	65.1	74.6	93.7	106.4	128.6	158.8
Outside diameter SFF	X	19.9	25.4	31.8	39.7	46	58.8	69.8	85.7	111.1
Outside diameter SGF	Y	36.5	44.4	49.2	58.7	65.1	84.1	96.8	119.1	146
Outside diameter STF	T	35.1	42.9	47.8	57.2	63.5	82.6	95.2	117.5	144.5
Inside diameter STF, LTF	U	25.4	33.3	38.1	47.6	54	73	85.7	108	131.8
Inside diameter SGF, LGF	Z	23.8	31.8	36.5	46	52.4	71.4	84.1	106.4	130.2
Diameter bolt circle		88.9	95.2	108	130.2	146	171.4	196.8	228.6	273
# bolt holes		4	4	4	4	4	8	8	8	8
Size bolt holes		7/8	7/8	1	1 1/8	1 1/4	1 1/8	1 1/4	1 3/8	1 5/8

Note: to calculate size b use  $Tf + f$  for the specific facing  
 All dimensions are a reference to the ASME B16.5  
 All dimensions in mm

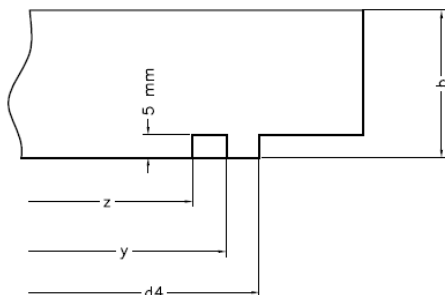
## Facing RF/SMF/LMF



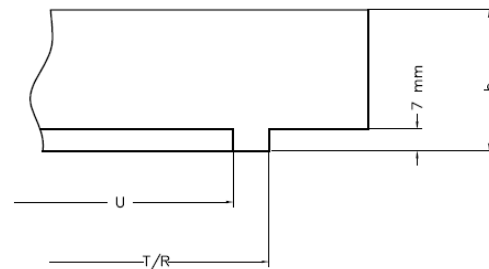
## Facing RJF



## Facing LGF/SGF



## Facing STF/LTF





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