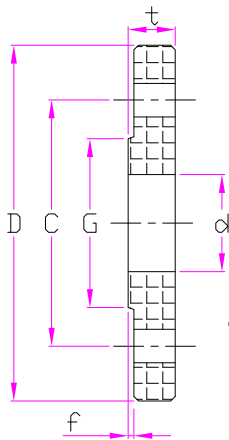
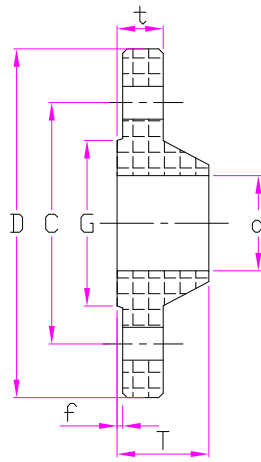


# ASNI FLANGE (150 lbs)



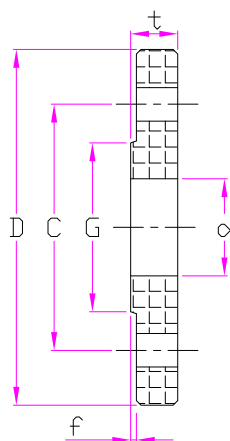
SLIP-ON type



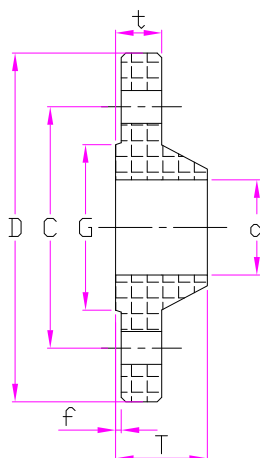
WELDING NECK type

Size (inch)	Size (mm)	D	t	G	T1	T2	B2	C	No. of holes	Bolting Dia. of holes	Stud Bolt Size
1/2	15	88.9	11.2	35.1	47.8	15.7	22.4	60.4	4	16	1/2-13UNCx65L
3/4	20	98.6	12.7	42.9	52.3	15.7	27.7	69.9	4	16	1/2-13UNCx65L
1	25	108	14.2	50.8	55.6	17.5	34.5	79.2	4	16	1/2-13UNCx70L
1 1/4	32	117.3	15.7	63.5	57.2	20.6	43.2	88.9	4	16	1/2-13UNCx70L
1 1/2	40	127	17.5	73.2	62	22.4	49.5	98.5	4	16	1/2-13UNCx75L
2	50	152.4	19.1	92	63.5	25.4	62	120.6	4	19	5/8-11UNCx85L
2 1/2	65	177.8	22.4	104.6	69.9	28.4	74.7	139.7	4	19	5/8-11UNCx90L
3	80	190.5	23.9	127	69.9	30.2	90.7	152.4	4	19	5/8-11UNCx95L
3 1/2	90	215.9	23.9	139.7	71.4	31.8	103.4	177.8	8	19	5/8-11UNCx95L
4	100	228.6	23.9	157.2	76.2	33.3	116.1	190.5	8	19	5/8-11UNCx95L
5	125	254	23.9	185.7	88.9	36.6	143.8	215.9	8	22	3/4-10UNCx105L
6	150	279.4	25.4	215.9	88.9	39.6	170.7	241.3	8	22	3/4-10UNCx105L
8	200	342.9	28.5	269.7	101.6	44.5	221.5	298.4	8	22	3/4-10UNCx110L
10	250	406.4	30.2	323.8	101.6	49.3	276.4	361.9	12	25	7/8-9UNCx120L
12	300	482.6	31.8	381	114.3	55.6	327.2	431.8	12	25	7/8-9UNCx120L
14	350	533.4	35.1	412.8	127	57.2	359.2	476.2	12	28	1-8UNCx135L
16	400	596.9	36.6	469.9	127	63.5	410.5	539.7	16	28	1-8UNCx140L
18	450	635	39.6	533.4	139.7	68.3	461.8	577.8	16	32	1 1/8-8UNx155L
20	500	698.5	42.9	584.2	144.5	73.2	513.1	635	20	32	1 1/8-8UNx160L
22	550	749.3	46	641.3	149.2	79.4	564.4	692.1	20	35	1 1/4-8UNx165L
24	600	812.8	47.8	692.1	152.4	82.6	616	749.3	20	35	1 1/4-8UNx180L
26	650	870	50.8	723.9	127	85.7	666.8	806.5	24	35	1 1/4-8UNx180L
28	700	927.1	52.4	793.7	128.6	87.3	717.5	863.6	28	35	1 1/4-8UNx180L
30	750	984.3	54	857.3	130.2	88.9	768.4	914.4	28	35	1 1/4-8UNx185L

ASNI FLANGE (300 lbs)



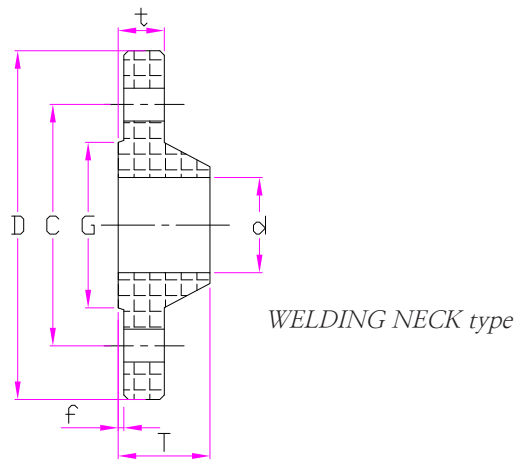
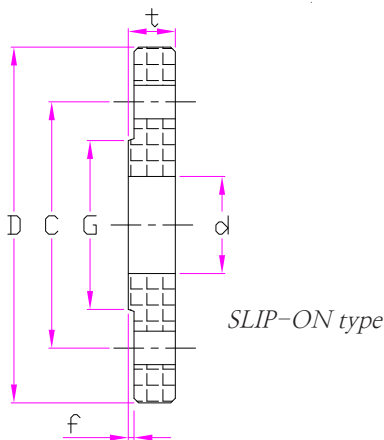
SLIP-ON type



WELDING NECK type

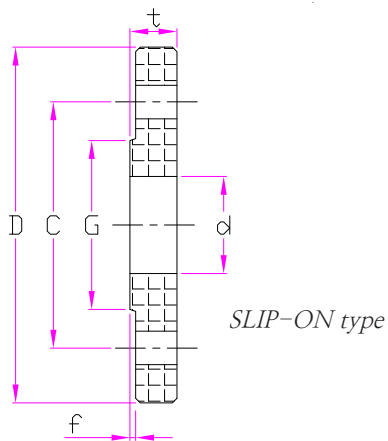
Size (inch)	Size (mm)	D	t	G	T1	T2	B2	C	No. of holes	Bolting Dia. of holes	Stud Bolt Size
1/2	15	95.2	14.2	35	52.3	22.4	22.4	66.5	4	16	1/2-13UNCx70L
3/4	20	117.3	15.7	42.9	57.2	25.4	27.7	82.5	4	19	5/8-11UNCx80L
1	25	123.9	17.5	50.8	62	26.9	34.5	88.9	4	19	5/8-11UNCx85L
1 1/4	32	133.3	19.1	63.5	65	26.9	43.2	98.5	4	19	5/8-11UNCx85L
1 1/2	40	155.4	20.6	73.1	68.3	30.2	49.5	114.3	4	22	3/4-10UNCx95L
2	50	165.1	22.3	91.9	69.9	33.3	62	127	8	19	5/8-11UNCx95L
2 1/2	65	190.5	25.4	104.6	76.2	38.1	74.7	149.3	8	22	3/4-10UNCx105L
3	80	209.5	28.4	127	79.2	42.9	90.7	168.1	8	22	3/4-10UNCx110L
3 1/2	90	228.6	30.2	139.7	81	44.5	103.4	184.1	8	22	3/4-10UNCx115L
4	100	254	31.7	157.2	85.9	47.8	116.1	200.1	8	22	5/8-11UNCx115L
5	125	279.4	35.1	185.7	98.6	50.8	143.8	234.9	8	22	3/4-10UNCx120L
6	150	317.5	36.6	215.9	98.6	52.3	170.7	269.7	12	22	3/4-10UNCx130L
8	200	381	41.1	269.7	111.3	62	221.5	330.2	12	25	7/8-9UNCx140L
10	250	444.5	47.7	323.8	117.3	66.5	276.4	387.3	16	28	1-8UNCx160L
12	300	520.7	50.8	381	130	73.2	327.2	450.8	16	32	1 1/8-8UNx175L
14	350	584.2	53.8	412.7	142.7	76.2	359.2	514.3	20	32	1 1/8-8UNx180L
16	400	647.7	57.1	469.9	146.1	82.6	410.5	571.5	20	35	1 1/4-8UNx190L
18	450	711.2	60.4	533.4	158.8	88.9	461.8	628.6	24	35	1 1/4-8UNx200L
20	500	774.7	63.5	584.2	162.1	95.3	513.1	685.8	24	35	1 1/4-8UNx210L
22	550	838.2	66.7	641.3	165.1	101.6	564.4	742.9	24	42	1 1/2-8UNx225L
24	600	914.4	69.8	692.1	168.1	106.4	616	812.8	24	42	1 1/2-8UNx235L
26	650	971.6	79.4	749.3	184.2	184.2	666.8	876.3	28	45	1 5/8-8UNx255L
28	700	1035	85.7	800.1	196.8	196.8	717.5	939.8	28	45	1 5/8-8UNx270L

ASNI FLANGE (600 lbs)

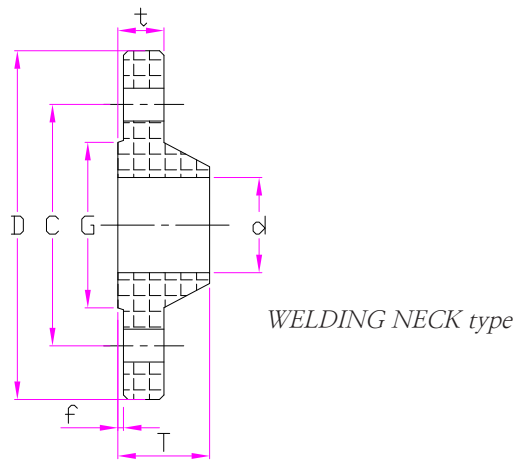


Size (inch)	Size (mm)	D	t	G	T1	T2	B2	C	No. of holes	Bolting Dia. of holes	Stud Bolt Size
1/2	15	95.2	14.2	35	52.3	22.4	22.4	66.5	4	16	1/2-13UNCx85L
3/4	20	117.3	15.7	42.9	57.2	25.4	27.7	82.5	4	19	5/8-11UNCx90L
1	25	123.9	17.5	50.8	62	26.9	34.5	88.9	4	19	5/8-11UNCx95L
1 1/4	32	133.3	20.6	63.5	66.5	28.4	43.2	98.5	4	19	5/8-11UNCx105L
1 1/2	40	155.4	22.3	73.1	69.9	31.8	49.5	114.3	4	22	3/4-10UNCx110L
2	50	165.1	25.4	91.9	73.2	36.6	62	127	8	19	5/8-11UNCx110L
2 1/2	65	190.5	28.4	104.6	79.2	41.1	74.7	149.3	8	22	3/4-10UNCx120L
3	80	209.5	31.7	127	82.6	46	90.7	168.1	8	22	3/4-10UNCx130L
3 1/2	90	228.6	35	139.7	85.9	49.3	103.4	184.1	8	25	7/8-9UNCx140L
4	100	273	38.1	157.2	101.6	53.8	116.1	215.9	8	25	7/8-9UNCx150L
5	125	330.2	44.4	185.7	114.3	60.5	143.8	266.7	8	28	1-8UNCx165L
6	150	355.6	47.7	215.9	117.3	66.5	170.7	292.1	12	28	1-8UNCx175L
8	200	419.1	55.6	269.7	133.4	76.2	221.5	349.2	12	32	1 1/8-8UNx200L
10	250	508	63.5	323.8	152.4	85.9	276.4	431.8	16	35	1 1/4-8UNx220L
12	300	558.8	66.5	381	155.4	91.9	327.2	488.9	20	35	1 1/4-8UNx225L
14	350	603.2	69.8	412.7	165.1	93.7	359.2	527	20	39	1 3/8-8UNx235L
16	400	685.8	76.2	469.9	177.8	106.4	410.5	603.2	20	42	1 1/2-8UNx255L
18	450	742.9	82.5	533.4	184.2	117.3	461.8	654	20	45	1 5/8-8UNx275L
20	500	812.8	88.9	584.2	190.5	127	513.1	723.9	24	45	1 5/8-8UNx295L
22	550	869.9	95.3	641.3	196.8	133.3	564.3	777.9	24	48	1 3/4-8UNx305L
24	600	939.8	101.6	692.1	203.2	139.7	616	838.2	24	51	1 7/8-8UNx330L
26	650	1016	108	749.3	222.3	222.3	666.8	914.4	28	51	1 7/8-8UNx340L
28	700	1073.1	111.1	800.1	234.9	234.9	717.5	965.2	28	54	2-8UNx350L

ASNI FLANGE (900 lbs)



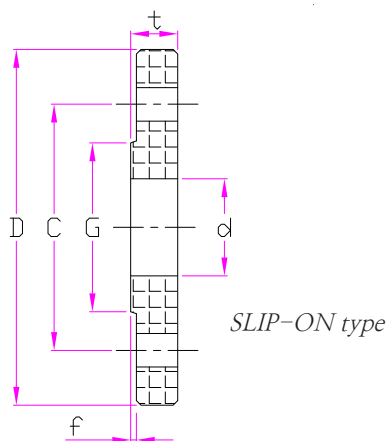
SLIP-ON type



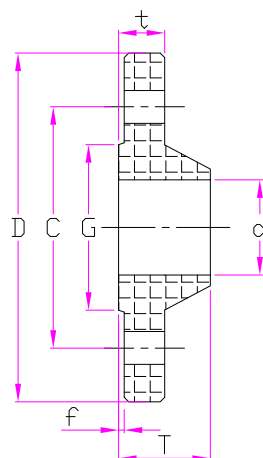
WELDING NECK type

Size (inch)	Size (mm)	D	t	G	T1	T2	B2	C	No. of holes	Bolting Dia. of holes	Stud Bolt Size
1/2	15	120.7	22.4	35.1	60.5	31.8	22.4	82.6	4	22	3/4-10UNCx115L
3/4	20	130	25.4	42.9	69.9	35.1	27.7	88.9	4	22	3/4-10UNCx120L
1	25	149.4	28.4	50.8	73.2	41.1	34.5	101.6	4	25	7/8-9UNCx135L
1 1/4	32	158.8	28.4	63.5	73.2	41.1	43.2	111.3	4	25	7/8-9UNCx135L
1 1/2	40	177.8	31.8	73.2	82.6	44.5	49.5	124	4	28	1-8UNCx145L
2	50	215.9	38.1	91.9	101.6	57.2	62	165.1	8	25	7/8-9UNCx155L
2 1/2	65	244.3	41.1	104.6	104.6	63.5	74.7	190.5	8	28	1-8UNCx165L
3	80	241.3	38.1	127	101.6	53.8	90.7	190.5	8	25	7/8-9UNCx155L
4	90	292.1	44.5	157.2	114.3	69.9	116.1	235	8	32	1 1/8-8UNx180L
5	100	349.3	50.8	185.7	127	79.2	143.8	279.4	8	35	1 1/4-8UNx200L
6	125	381	55.6	215.9	139.7	85.9	170.7	317.5	12	32	1 1/8-8UNx200L
8	150	469.9	63.5	269.7	162.1	101.6	221.5	393.7	12	38	1 3/8-8UNx230L
10	200	546.1	69.9	323.9	184.2	108	276.4	469.9	16	38	1 3/8-8UNx240L
12	250	609.6	79.2	381	200.2	117.3	327.2	533.4	20	38	1 3/8-8UNx260L
14	300	641.4	85.9	412.8	212.9	130	359.2	558.8	20	41	1 1/2-8UNx280L
16	350	704.9	88.9	469.9	215.9	133.4	410.5	616	20	45	1 5/8-8UNx295L
18	400	787.4	101.6	533.4	228.6	152.4	461.8	685.8	20	51	1 7/8-8UNx330L
20	450	711.2	60.4	533.4	158.8	88.9	461.8	628.6	24	35	1 1/4-8UNx200L

*JIS (KS) FLANGE (10K)*



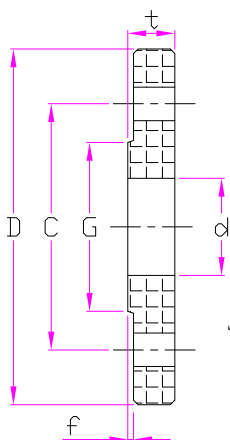
*SLIP-ON type*



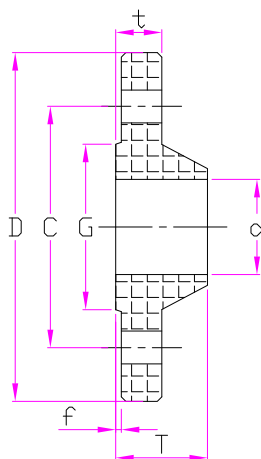
*WELDING NECK type*

Class	Size	$D$	$t$	$f$	$G$	$T$	$T1$	$d$	Bolting			
									$C$	No. of holes	Dia. of holes	Bolt size
JIS 10K	10	90	12	1	48	—	—	17.8	65	4	15	M12
	15	95	12	1	52	—	—	22.2	70	4	15	M12
	20	100	14	1	58	—	—	27.7	75	4	15	M12
	25	125	14	1	70	—	—	34.5	90	4	19	M16
	32	135	16	2	80	—	—	43.2	100	4	19	M16
	40	140	16	2	85	—	—	49.1	105	4	19	M16
	50	155	16	2	100	—	—	61.1	120	4	19	M16
	65	175	18	2	120	—	—	77.1	140	4	19	M16
	80	185	18	2	130	—	—	90	150	8	19	M16
	100	210	18	2	155	—	—	115.4	175	8	19	M16
	125	250	20	2	185	—	—	141.2	210	8	23	M20
	150	280	22	2	215	—	—	166.6	240	8	23	M20
	200	330	22	2	265	—	—	218	290	12	23	M20
	250	400	24	2	325	36	—	269.5	355	12	25	M22
	300	445	24	3	370	38	—	321	400	16	25	M22
	350	490	26	3	415	42	—	358.1	445	16	25	M22
	400	560	28	3	475	44	—	409	510	16	27	M24
	450	620	30	3	530	48	—	460	565	20	27	M24
	500	675	30	3	585	48	—	511	620	20	27	M24
	600	795	32	3	—	52	—	613	730	24	33	—

*JIS (KS) FLANGE (20K,30K)*



*SLIP-ON type*

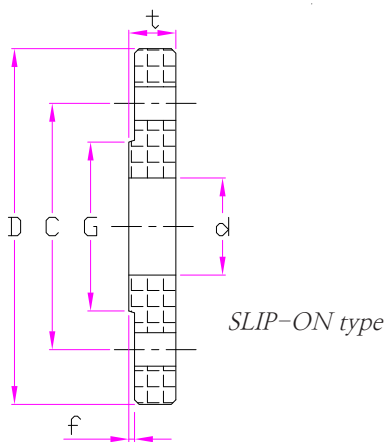


*WELDING NECK type*

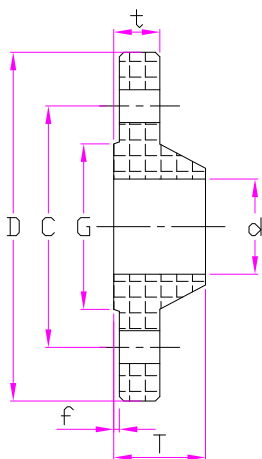
Class	Size	D	t	f	G	T	T1	d	Bolting			
									C	No. of holes	Dia. of holes	Bolt size
JIS 20K	10	90	14	1	48	20	–	17.8	65	4	15	M12
	15	95	14	1	52	20	–	22.2	70	4	15	M12
	20	100	16	1	58	22	–	27.7	75	4	15	M12
	25	125	16	1	70	24	–	34.5	90	4	19	M16
	32	135	18	2	80	26	–	43.2	100	4	19	M16
	40	140	18	2	85	26	–	49.1	105	4	19	M16
	50	155	18	2	100	26	–	61.1	120	8	19	M16
	65	175	20	2	120	30	–	77.1	140	8	19	M16
	80	200	22	2	135	34	–	90	160	8	23	M20
	100	225	24	2	160	36	–	115.4	185	8	23	M20
	125	270	26	2	195	40	–	141.2	225	8	25	M22
	150	305	28	2	230	42	–	166.6	260	12	25	M22
	200	350	30	2	275	46	–	218	305	12	25	M22
	250	430	34	2	345	52	–	269.5	380	12	27	M24
	300	480	36	3	395	56	–	321	430	16	27	M24
	350	540	40	3	440	62	–	358.1	480	16	33	M30
	400	605	46	3	495	70	–	409	540	16	33	M30
	450	675	48	3	560	78	–	460	605	20	33	M30
	500	730	52	3	615	84	–	511	660	20	33	M30

Class	Size	D	t	f	G	T	T1	d	Bolting			
									C	No. of holes	Dia. of holes	Bolt size
JIS 30K	10	110	16	1	52	24	–	17.8	75	4	19	M16
	15	115	18	1	55	26	45	22.2	80	4	19	M16
	20	120	18	1	60	28	45	27.7	85	4	19	M16
	25	130	20	1	70	30	48	34.5	95	4	19	M16
	32	140	22	2	80	32	52	43.2	105	4	19	M16
	40	160	22	2	90	34	54	49.1	120	4	23	M20
	50	165	22	2	105	36	57	61.1	130	8	19	M16
	65	200	26	2	130	40	69	77.1	160	8	23	M20
	80	210	28	2	140	44	73	90	170	8	23	M20
	100	240	32	2	160	48	76	115.4	195	8	25	M22
	125	275	36	2	195	54	86	141.2	230	8	25	M22
	150	325	38	2	235	58	95	166.6	275	12	27	M24
	200	370	42	2	280	64	102	218	320	12	27	M24
	250	450	48	2	345	72	118	269.5	390	12	33	M30
	300	515	52	3	405	78	127	321	450	16	33	M30
	350	560	54	3	450	84	134	358.1	495	16	33	M30

DIN FLANGE (PN 10 bar)



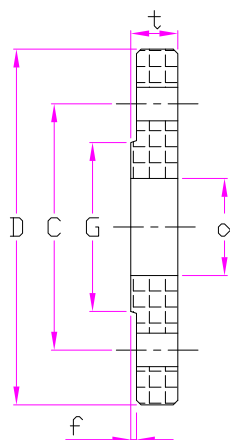
SLIP-ON type



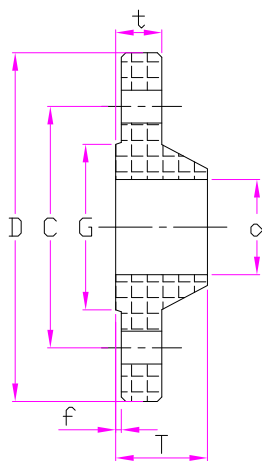
WELDING NECK type

Size	D	t			G	#f	T	d (O.D of pipe)	Bolting		
		W.N	Slip-on	Blind					C	Dia. of holes	Bolt size
10	90	14	14	14	40	2	35	14	60	14	4 – M12
15	95	14	14	14	45	2	35	20	65	14	4 – M12
20	105	16	16	16	58	2	38	25	75	14	4 – M12
25	115	16	16	16	68	2	38	30	85	14	4 – M12
32	140	16	16	16	78	2	40	38	100	18	4 – M16
40	150	16	16	16	88	3	42	44,5	110	18	4 – M16
50	165	18	18	18	102	3	45	57	125	18	4 – M16
65	185	18	18	18	122	3	45	76,1	145	18	4 – M16
80	200	20	20	20	138	3	50	88,9	160	18	4 – M16
100	220	20	20	20	158	3	52	108	180	18	8 – M16
125	250	22	22	22	188	3	55	133	210	18	8 – M16
150	285	22	22	22	212	3	55	159	240	23	8 – M20
200	340	24	24	24	268	3	62	216	295	23	8 – M20
250	395	26	26	26	320	3	68	267	350	23	12 – M20
300	445	26	26	28	370	4	68	318	400	23	12 – M20
350	505	26	28	30	430	4	68	368	460	23	16 – M20
400	565	26	32	32	482	4	72	419	515	27	16 – M24
500	670	28	38	34	585	4	75	521	620	27	20 – M24
600	780	28	–	–	685	5	80	622	725	30	20 – M27
700	895	30	–	–	800	5	80	720	840	30	24 – M27
800	1015	32	–	–	905	5	90	820	950	33	24 – M30
900	1115	34	–	–	1005	5	95	920	1050	33	28 – M30

*DIN FLANGE (PN 16 bar)*



*SLIP-ON type*



*WELDING NECK type*

Size	D	t			G	#f	T	d (O.D of pipe)	Bolting		
		W.N	Slip-on	Blind					C	Dia. of holes	Bolt size
10	90	14	14	14	40	2	35	14	60	14	4 – M12
15	95	14	14	14	45	2	35	20	65	14	4 – M12
20	105	16	16	16	58	2	38	25	75	14	4 – M12
25	115	16	16	16	68	2	38	30	85	14	4 – M12
32	140	16	16	16	78	2	40	38	100	18	4 – M16
40	150	16	16	16	88	3	42	44,5	110	18	4 – M16
50	165	18	18	18	102	3	45	57	125	18	4 – M16
65	185	18	18	18	122	3	45	76,1	145	18	4 – M16
80	200	20	20	20	138	3	50	88,9	160	18	8 – M16
100	220	20	20	20	158	3	52	108	180	18	8 – M16
125	250	22	22	22	188	3	55	133	210	18	8 – M16
150	285	22	22	22	212	3	55	159	240	23	8 – M20
200	340	24	24	24	268	3	62	216	295	23	12 – M20
250	405	26	26	26	320	3	70	267	355	27	12 – M24
300	460	28	28	28	378	4	78	318	410	27	12 – M24
350	520	30	30	30	438	4	82	368	470	27	16 – M24
400	580	32	32	32	490	4	85	419	525	30	16 – M27
500	715	34	36	34	610	4	90	521	650	33	20 – M30
600	840	36	40	–	725	5	95	622	770	36	20 – M33
700	910	36	–	–	795	5	100	720	840	36	24 – M33
800	1025	38	–	–	900	5	105	820	950	39	24 – M36
900	1125	40	–	–	1000	5	110	920	1050	39	28 – M36



*DIN FLANGE (PN 20 bar), (PN 40 bar)*

Size	D	t			G	#f	T	d (O.D of pipe)	Bolting		
		W.N	Slip-on	Blind					C	Dia. of holes	Bolt size
10	90	16	–	16	40	2	35	14	60	14	4 – M12
15	95	16	16	16	45	2	38	20	65	14	4 – M12
20	105	18	18	18	58	2	40	25	75	14	4 – M12
25	115	18	18	18	68	2	40	30	85	14	4 – M12
32	140	18	18	18	78	2	42	38	100	18	4 – M16
40	150	18	18	18	88	3	45	44,5	110	18	4 – M16
50	165	20	20	20	102	3	48	57	125	18	4 – M16
65	185	22	22	22	122	3	52	76,1	145	18	8 – M16
80	200	24	24	24	138	3	58	88,9	160	18	8 – M16
100	235	24	24	24	162	3	65	108	190	23	8 – M20
125	270	26	26	26	188	3	68	133	220	27	8 – M24
150	300	28	28	28	218	3	75	159	250	27	8 – M24
200	360	30	30	30	278	3	80	216	310	27	12 – M24
250	425	32	32	32	335	3	88	267	370	30	12 – M27
300	485	34	34	34	395	4	92	318	430	30	16 – M27
350	555	38	38	38	450	4	100	368	490	33	16 – M30
400	620	40	40	40	505	4	110	419	550	36	16 – M33
500	730	44	44	44	615	4	125	521	660	36	20 – M33
600	845	46	–	–	720	5	125	622	770	39	20 – M36
700	960	46	–	–	820	5	125	720	875	42	24 – M39
800	1085	50	–	–	930	5	135	820	990	48	24 – M45
900	1185	54	–	–	1030	5	145	920	1090	48	28 – M45
1000	1320	58	–	–	1140	5	155	1020	1210	56	28 – M52

Size	D	t			G	#f	T	d (O.D of pipe)	Bolting		
		W.N	Slip-on	Blind					C	Dia. of holes	Bolt size
10	90	14	14	14	40	2	35	14	60	14	4 – M12
15	95	14	14	14	45	2	35	20	65	14	4 – M12
20	105	16	16	16	58	2	38	25	75	14	4 – M12
25	115	16	16	16	68	2	38	30	85	14	4 – M12
32	140	16	16	16	78	2	40	38	100	18	4 – M16
40	150	16	16	16	88	3	42	44,5	110	18	4 – M16
50	165	18	18	18	102	3	45	57	125	18	4 – M16
65	185	18	18	18	122	3	45	76,1	145	18	4 – M16
80	200	20	20	20	138	3	50	88,9	160	18	4 – M16
100	220	20	20	20	158	3	52	108	180	18	8 – M16
125	250	22	22	22	188	3	55	133	210	18	8 – M16
150	285	22	22	22	212	3	55	159	240	23	8 – M20
200	340	24	24	24	268	3	62	216	295	23	8 – M20
250	395	26	26	26	320	3	68	267	350	23	12 – M20
300	445	26	26	28	370	4	68	318	400	23	12 – M20
350	505	26	28	30	430	4	68	368	460	23	16 – M20
400	565	26	32	32	482	4	72	419	515	27	16 – M24
500	670	28	38	34	585	4	75	521	620	27	20 – M24