



ابتکار صنعت نادین

فلنج های فولادی



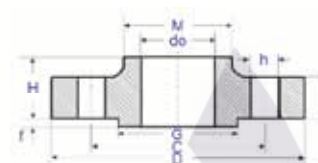
	TYPE	STANDARD	PRESSURE CLASS
	SLIP- ON FLANGE (RAISED FACE)	ASME / ANSI B16.5	150#, 300#, 600#, 900#, 1500#
	SLIP- ON FLANGE (FLAT FACE)	ASME / ANSI B16.5	150#, 300#, 600#, 900#, 1500#
	BLIND FLANGE (RAISED FACE)	ASME / ANSI B16.5	150#, 300#, 600#, 900#, 1500#
	BLIND FLANGE (FLAT FACE)	ASME / ANSI B16.5	150#, 300#, 600#, 900#, 1500#
	SOCKET WELDING FLANGE (RAISED FACE)	ASME / ANSI B16.5	150#, 300#, 600#, 1500#
	SOCKET WELDING FLANGE (FLAT FACE)	ASME / ANSI B16.5	150#, 300#, 600#, 1500#
	THREADED FLANGE (RAISED FACE)	ASME / ANSI B16.5	150#, 300#, 600#, 900#, 1500#
	THREADED FLANGE (FLAT FACE)	ASME / ANSI B16.5	150#, 300#, 600#, 900#, 1500#
	WELDING NECK (RAISED FACE)	ASME / ANSI B16.5	150#, 300#, 600#, 900#, 1500#
	WELDING NECK (FLAT FACE)	ASME / ANSI B16.5	150#, 300#, 600#, 900#, 1500#
	SLIP-ON LAP JOINT FLANGE	ASME / ANSI B16.5	150#, 300#, 600#

Code	Grade	C	Si	Mn	P	S	Cu	Ni	Cr	Mo	Other
405	13Cr-0.2A1	≤ 0.08	≤ 1.00	≤ 1.00	≤ 0.040	≤ 0.030	-	≤ 0.6	11.50~14.50	-	A1 0.10~0.30
410	13Cr	≤ 0.15	≤ 1.00	≤ 1.00	≤ 0.040	≤ 0.030	-	≤ 0.6	11.50~13.50	-	-
430	17Cr	≤ 0.12	≤ 0.75	≤ 1.00	≤ 0.040	≤ 0.030	-	≤ 0.6	16.00~18.00	-	-
443	22Cr-1Cu	≤ 0.2	≤ 0.75	≤ 1.00	≤ 0.040	≤ 0.030	0.90~1.25	≤ 0.5	18.00~23.00	-	-
446	25Cr	≤ 0.2	≤ 0.75	≤ 1.50	≤ 0.040	≤ 0.030	-	≤ 0.5	23.0~30.0	-	N 0.10~0.25
329	25Cr-4Ni-1.5Mo	≤ 0.08	≤ 1.00	≤ 1.50	≤ 0.040	≤ 0.030	-	3.00~6.00	23.00~28.00	1.00~3.00	-
430A	17Cr-Ti	≤ 0.1	≤ 1.00	≤ 1.00	≤ 0.040	≤ 0.030	-	-	16.00~18.00	-	Ti ≥ 7xC%
303	18Cr-9Ni-S	≤ 0.15	≤ 1.00	≤ 2.00	≤ 0.20	≤ 0.15	-	8.00~10.00	17.00~19.00	-	-
304	19Cr-10Ni	≤ 0.08	≤ 1.00	≤ 2.00	≤ 0.040	≤ 0.030	-	8.00~11.00	18.00~20.00	-	-
316	17Cr-12Ni-2.5Mo	≤ 0.08	≤ 1.00	≤ 2.00	≤ 0.040	≤ 0.030	-	10.00~14.00	16.00~18.00	2.00~3.00	-
304H	H * C-19Cr-10Ni	0.04~0.10	≤ 0.75	≤ 2.00	≤ 0.040	≤ 0.030	-	8.00~11.00	18.00~20.00	-	-
316H	H * C-17Cr-12Ni-2.5Mo	0.04~0.10	≤ 0.75	≤ 2.00	≤ 0.030	≤ 0.030	-	11.00~14.00	16.00~18.00	2.00~3.00	-
321H	H* C-18Cr-11Ni-Ti	0.04~0.10	≤ 0.75	≤ 2.00	≤ 0.030	≤ 0.030	-	9.00~13.00	17.00~20.00	-	Ti 4xC%~0.60
347H	H * C-18Cr-11Ni-Nb	0.04~0.10	≤ 1.00	≤ 2.00	≤ 0.030	≤ 0.030	-	9.00~13.00	17.00~20.00	-	Nb+Ta 8xC%~1.00
348H	H * C-18Cr-11Ni-Nb(Ta)	0.04~0.10	≤ 1.00	≤ 2.00	≤ 0.040	≤ 0.03	-	9.00~13.00	17.00~20.00	-	Nb+Ta 8xC%~1.00 Ta ≤ 0.10
304L	L*C-19Cr-11Ni	≤ 0.030	≤ 1.00	≤ 2.00	≤ 0.040	≤ 0.030	-	9.00~13.00	18.00~20.00	-	-
316L	L*C-17Cr-14Ni-2.5Mo	≤ 0.030	≤ 1.00	≤ 2.00	≤ 0.040	≤ 0.030	-	12.00~16.00	16.00~18.00	2.00~3.00	-
321	18Cr-11Ni-Ti	≤ 0.08	≤ 1.00	≤ 2.00	≤ 0.040	≤ 0.030	-	9.00~13.00	17.00~19.00	-	Ti ≥ 5XC%
347	18Cr-11Ni-Nb	≤ 0.08	≤ 1.00	≤ 2.00	≤ 0.040	≤ 0.030	-	9.00~13.00	17.00~19.00	-	Nb+Ta ≥ 10XC%
348	18Cr-11Ni-Nb(Ta)	≤ 0.08	≤ 1.00	≤ 2.00	≤ 0.040	≤ 0.030	-	9.00~13.00	17.00~20.00	-	Nb+Ta10XC%~1.00 Ta≤ 0.10
316 Cu	18Cr-12Ni-2Mo-2Cu	≤ .008	≤ 1.00	≤ 2.00	≤ 0.040	≤ 0.030	1.00~2.50	10.00~14.00	17.00~19.00	1.20~2.75	-
316CuL	L*C-18Cr-14Ni-2Mo-2Cu	≤ 0.030	≤ 1.00	≤ 2.00	≤ 0.040	≤ 0.030	1~2.50	12.00~16.00	17.00~19.00	1.20~2.75	-
317	19Cr-13Ni-3.5Mo	≤ 0.08	≤ 1.00	≤ 2.00	≤ 0.040	≤ 0.030	-	11.00~15.00	18.00~20.00	3.00~4.00	-
317L	L*C-19Cr-14Ni-3.5Mo	≤ 0.030	≤ 1.00	≤ 2.00	≤ 0.040	≤ 0.030	-	11.00~15.0	18.00~20.00	3.00~4.00	-
316B	18Cr-12Ni-2.5Mo-Ti	≤ 0.10	≤ 1.00	≤ 2.00	≤ 0.045	≤ 0.030	-	10.5~13.5	16.5~18.5	2.00~2.50	Ti=5XC%
KCP20	20Cr-30Ni-3.0 Mo-4Cu	≤ 0.07	≤ 1.00	≤ 2.00	≤ 0.040	≤ 0.030	3.00~4.00	28.00~30.00	19.00~21.00	2.00~3.00	Nb=10XC%
309S	23Cr-14Ni	≤ 0.15	≤ 1.00	≤ 2.00	≤ 0.040	≤ 0.030	-	12.00~15.00	22.00~24.00	-	-
310S	25Cr-20Ni	≤ 0.15	≤ 1.50	≤ 2.00	≤ 0.040	≤ 0.030	-	19.00~22.00	24.00~26.00	-	-

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ANSI /ASTM STANDARD - 150# SORF

SLIP- ON FLANGE (RAISED FACE)



Nominal Pipe Size	Outside Dia. (mm)	Dia. of Bore (mm)	Thickness Min. (mm)	Length Thru. Hub (mm)	Dia. at Base of Hub (mm)	Dia. of Raised Face (mm)	Height of Raised face (mm)	Number of Bolt Holes	Dia. of Bolt Holes (mm)	Dia. of Bolt Circle (mm)	Approx. Weight (KG)
	D	do	t	H	M	G	f		h	C	
1/2"	88.9	22.4	11.2	15.7	30.2	35.1	1.6	4	15.7	60.5	0.4
3/4"	98.6	27.7	12.7	15.7	38.1	42.9	1.6	4	15.7	69.9	0.6
1"	108.0	34.5	14.2	17.5	49.3	50.8	1.6	4	15.7	79.2	0.8
1.1/4"	117.3	43.2	15.7	20.6	58.7	63.5	1.6	4	15.7	88.9	1.0
1.1/2"	127.0	49.5	17.5	22.4	65.0	73.2	1.6	4	15.7	98.6	1.4
2"	152.4	62.0	19.1	25.4	77.7	91.9	1.6	4	19.1	120.7	2.1
2.1/2"	177.8	74.7	22.4	28.4	90.4	104.6	1.6	4	19.1	139.7	3.3
3"	190.5	90.7	23.9	30.2	108.0	127.0	1.6	4	19.1	152.4	3.9
3.1/2"	215.9	103.4	23.9	31.8	122.2	139.7	1.6	8	19.1	177.8	4.9
4"	228.6	116.1	23.9	33.3	134.9	157.2	1.6	8	19.1	190.5	5.4
5"	254.0	143.8	23.9	36.6	163.6	185.7	1.6	8	22.4	215.9	6.1
6"	279.4	170.7	25.4	39.6	192.0	215.9	1.6	8	22.4	241.3	7.5
8"	342.9	221.5	28.4	44.5	246.1	269.7	1.6	8	22.4	298.5	12.1
10"	406.4	276.4	30.2	49.3	304.8	323.9	1.6	12	25.4	362.0	16.5
12"	482.6	327.2	31.8	55.6	365.3	381.0	1.6	12	25.4	431.8	27.0
14"	533.4	359.2	35.1	57.2	400.1	412.8	1.6	12	28.4	476.2	35.0
16"	596.9	410.5	36.6	63.5	457.2	469.9	1.6	16	28.4	539.8	45.0
18"	635.0	461.8	39.6	68.3	505.0	533.4	1.6	16	31.8	577.9	49.0
20"	698.5	513.1	42.9	73.2	558.8	584.2	1.6	20	31.8	635.0	62.0
22"	749.3	564.4	46.0	79.4	609.6	641.2	1.6	20	35.1	692.1	85.0
24"	812.8	616.0	47.8	82.6	663.4	692.2	1.6	20	35.1	749.3	87.0

ANSI /ASTM STANDARD - 300# SORF

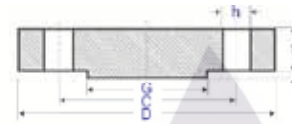
SLIP- ON FLANGE (RAISED FACE)

Nominal Pipe Size	Outside Dia. (mm)	Dia. of Bore (mm)	Thickness Min. (mm)	Length Thru. Hub (mm)	Dia. at Base of Hub (mm)	Dia. of Raised Face (mm)	Height of Raised face (mm)	Number of Bolt Holes	Dia. of Bolt Holes (mm)	Dia. of Bolt Circle (mm)	Approx. Weight (KG)
	D	do	t	H	M	G	f		h	C	
1/2"	95.2	22.3	14.2	22.3	38.1	35.0	1.6	4	15.7	66.5	0.7
3/4"	117.3	27.7	15.7	25.4	47.7	42.9	1.6	4	19.0	82.5	1.2
1"	123.9	34.5	17.5	26.9	53.8	50.8	1.6	4	19.0	88.9	1.4
1.1/4"	133.3	43.2	19.0	26.9	63.5	63.5	1.6	4	19.0	98.5	1.7
1.1/2"	155.4	49.5	20.6	30.2	69.8	73.1	1.6	4	22.3	114.3	2.5
2"	165.1	62.0	22.3	33.2	84.0	91.9	1.6	8	19.0	127.0	2.9
2.1/2"	190.5	74.7	25.4	38.1	100.0	104.6	1.6	8	22.3	149.3	4.4
3"	209.5	90.7	28.4	42.9	117.3	127.0	1.6	8	22.3	168.1	5.6
3.1/2"	228.6	103.4	30.2	44.4	133.3	139.7	1.6	8	22.3	184.1	7.4
4"	254.0	116.1	31.7	47.7	146.0	157.2	1.6	8	22.3	200.1	10.0
5"	279.4	143.8	35.0	50.8	177.8	185.6	1.6	8	22.3	234.9	12.3
6"	317.5	170.7	36.5	52.3	206.2	215.9	1.6	12	22.3	269.7	15.6
8"	381.0	221.5	41.1	61.9	260.3	269.7	1.6	12	25.4	330.2	24.2
10"	444.5	276.3	47.7	66.5	320.5	323.8	1.6	16	28.4	387.3	34.1
12"	520.7	327.1	50.8	73.1	374.6	381.0	1.6	16	31.7	450.8	50.0
14"	584.2	359.1	53.8	76.2	425.4	412.7	1.6	20	31.7	514.3	70.0
16"	647.7	410.5	57.1	82.5	482.6	469.9	1.6	20	35.0	571.5	89.0
18"	711.2	461.8	60.4	88.9	533.4	533.4	1.6	24	35.0	628.6	109.0
20"	774.7	513.1	63.5	95.2	587.2	584.2	1.6	24	35.0	685.8	134.0
22"	838.2	564.4	66.7	101.6	641.2	641.2	1.6	24	41.1	742.9	168.0
24"	914.4	615.9	69.8	106.4	701.5	692.1	1.6	24	41.1	812.8	201.0

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ANSI /ASTM STANDARD - 150# BLRF

BLIND FLANGE (RAISED FACE)



Nominal Pipe Size	Outside Dia. (mm)	Thickness Min. (mm)	Number of Bolt Holes	Dia. of Bolt Holes (mm)	Dia. of Bolt Circle (mm)	Dia. of Raised Face (mm)	Height of Raised face (mm)	Approx. Weight (KG)
	D	t		h	C	G	f	
1/2"	88.9	11.2	4	15.7	60.5	35.1	1.6	0.5
3/4"	98.6	12.7	4	15.7	69.9	42.9	1.6	0.7
1"	108.0	14.2	4	15.7	79.2	50.8	1.6	0.9
1.1/4"	117.3	15.7	4	15.7	88.9	63.5	1.6	1.2
1.1/2"	127.0	17.5	4	15.7	98.6	73.2	1.6	1.6
2"	152.4	19.1	4	19.1	120.7	91.9	1.6	2.5
2.1/2"	177.8	22.4	4	19.1	139.7	104.6	1.6	4.0
3"	190.5	23.9	4	19.1	152.4	127.0	1.6	4.9
3.1/2"	215.9	23.9	8	19.1	177.8	139.7	1.6	6.2
4"	228.6	23.9	8	19.1	190.5	157.2	1.6	7.0
5"	254.0	23.9	8	22.4	215.9	185.7	1.6	8.7
6"	279.4	25.4	8	22.4	241.3	215.9	1.6	11.3
8"	342.9	28.4	8	22.4	298.5	269.7	1.6	20.0
10"	406.4	30.2	12	25.4	362.0	323.9	1.6	29.0
12"	482.6	31.8	12	25.4	431.8	381.0	1.6	44.0
14"	533.4	35.1	12	28.4	476.2	412.8	1.6	59.0
16"	596.9	36.6	16	28.4	539.7	469.9	1.6	76.0
18"	635.0	39.6	16	31.8	577.8	533.4	1.6	94.0
20"	698.5	42.9	20	31.8	635.0	584.2	1.6	122.0
22"	749.3	46.0	20	35.1	692.1	641.2	1.6	161.0
24"	812.8	47.8	20	35.1	749.3	692.2	1.6	185.0

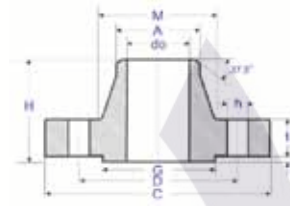
ANSI /ASTM STANDARD - 300# BLRF

BLIND FLANGE (RAISED FACE)

Nominal Pipe Size	Outside Dia. (mm)	Thickness Min. (mm)	Number of Bolt Holes	Dia. of Bolt Holes (mm)	Dia. of Bolt Circle (mm)	Dia. of Raised Face (mm)	Height of Raised face (mm)	Approx. Weight (KG)
	D	t		h	C	G	f	
1/2"	95.2	14.2	4	15.7	66.7	35.0	1.6	0.7
3/4"	117.3	15.7	4	19.0	82.5	42.9	1.6	1.2
1"	123.9	17.5	4	19.0	88.9	50.8	1.6	1.4
1.1/4"	133.3	19.0	4	19.0	98.4	63.5	1.6	1.8
1.1/2"	155.4	20.6	4	22.3	114.3	73.1	1.6	2.7
2"	165.1	22.3	8	19.0	127.0	91.9	1.6	3.2
2.1/2"	190.5	25.4	8	22.3	149.2	104.6	1.6	4.9
3"	209.5	28.4	8	22.3	168.3	127.0	1.6	7.0
3.1/2"	228.6	30.2	8	22.3	184.1	139.7	1.6	9.0
4"	254.0	31.7	8	22.3	200.0	157.2	1.6	12.0
5"	279.4	35.0	8	22.3	234.9	185.6	1.6	16.0
6"	317.5	36.5	12	22.3	269.9	215.9	1.6	21.0
8"	381.0	41.1	12	25.4	330.2	269.7	1.6	35.0
10"	444.5	47.7	16	28.4	387.3	323.8	1.6	54.0
12"	520.7	50.8	16	31.7	450.8	381	1.6	87.9
14"	584.2	53.8	20	31.7	514.3	412.7	1.6	105.0
16"	647.7	57.1	20	35.0	571.5	469.9	1.6	137.0
18"	711.2	60.4	24	35.0	628.6	533.4	1.6	175.0
20"	774.7	63.5	24	35.0	685.8	584.2	1.6	221.0
22"	838.2	66.7	24	41.1	742.9	641.2	1.6	290.0
24"	914.4	69.8	24	41.1	812.8	692.1	1.6	340.0

ANSI /ASTM STANDARD - 150# WNRF

WELDING NECK FLANGE (RAISED FACE)



Nominal Pipe Size	Dia. of Bore (mm)			Outside Dia. (mm)	Thickness Min. (mm)	Length Thru. Hub (mm)	Outside Dia. of Neck (mm)	Dia. at Base of Neck (mm)	Dia. of Raised Face (mm)	Height of Raised Face (mm)	Number of Bolt Holes	Dia. of Bolt Holes (mm)	Dia. of Bolt Circle (mm)	Approx. Weight (KG)
	Sch 10S	Sch 40S/ STD	Sch 80S/ STD											
	do			C	t	H	A	M	G	f		h	D	
1/2"	17.1	15.8	13.9	88.9	11.2	47.8	21.3	30.2	35.1	1.6	4	15.7	60.5	0.5
3/4"	22.5	20.9	18.8	98.6	12.7	52.3	26.7	38.1	42.9	1.6	4	15.7	69.9	0.7
1"	27.9	26.6	24.5	108.0	14.2	55.6	33.5	49.3	50.8	1.6	4	15.7	79.2	1.0
1.1/4"	36.6	35.1	32.5	117.3	15.7	57.2	42.2	58.7	63.5	1.6	4	15.7	88.9	1.4
1.1/2"	42.7	40.9	38.1	127.0	17.5	62.0	48.3	65.0	73.2	1.6	4	15.7	98.6	1.8
2"	54.9	52.7	49.5	152.4	19.1	63.5	60.5	77.7	91.9	1.6	4	19.1	120.7	2.6
2.1/2"	67.2	62.7	59.0	177.8	22.4	69.9	73.2	90.4	104.6	1.6	4	19.1	139.7	4.2
3"	82.9	77.9	73.7	190.5	23.9	69.9	88.9	108.0	127.0	1.6	4	19.1	152.4	5.0
3.1/2"	95.6	90.1	85.5	215.9	23.9	71.4	101.6	122.2	139.7	1.6	8	19.1	177.8	6.1
4"	108.3	102.3	97.2	228.6	23.9	76.2	114.3	134.9	157.2	1.6	8	19.1	190.5	7.0
5"	134.4	128.2	122.3	254.0	23.9	88.9	141.2	163.6	185.7	1.6	8	22.4	215.9	8.6
6"	161.6	154.2	146.3	279.4	25.4	88.9	168.4	192.0	215.9	1.6	8	22.4	241.3	10.6
8"	211.6	202.7	193.7	342.9	28.4	101.6	219.2	246.1	269.7	1.6	8	22.4	298.5	17.6
10"	264.6	254.5	247.7	406.4	30.2	101.6	273.1	304.8	323.8	1.6	12	25.4	362.0	24.0
12"	314.6	304.9	298.5	482.6	31.8	114.3	323.9	365.3	381.0	1.6	12	25.4	431.8	37.0
14"	346.0	336.6	330.2	533.4	35.1	127.0	355.6	400.1	412.8	1.6	12	28.4	476.3	49.0
16"	396.8	387.3	381.0	596.9	36.6	127.0	406.4	457.2	469.9	1.6	16	28.4	539.8	61.0
18"	447.6	438.1	431.8	635.0	39.6	139.7	457.2	505.0	533.4	1.6	16	31.8	577.9	68.0
20"	497.0	488.9	482.6	698.5	42.9	144.5	508.0	558.8	584.2	1.6	20	31.8	635.0	85.0
22"	547.7	539.7	533.4	749.3	46.0	149.2	558.8	609.6	641.2	1.6	20	35.1	692.1	102.0
24"	598.5	590.5	584.2	812.8	47.8	152.4	609.6	663.4	692.2	1.6	20	35.1	749.3	115.0

ANSI /ASTM STANDARD - 300# WNRF

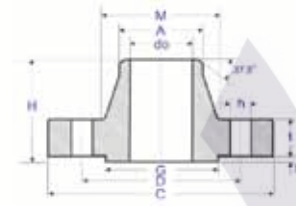
WELDING NECK FLANGE (RAISED FACE)

Nominal Pipe Size	Dia. of Bore (mm)			Outside Dia. (mm)	Thickness Min. (mm)	Length Thru. Hub (mm)	Outside Dia. of Neck (mm)	Dia. at Base of Neck (mm)	Dia. of Raised Face (mm)	Height of Raised Face (mm)	Number of Bolt Holes	Dia. of Bolt Holes (mm)	Dia. of Bolt Circle (mm)	Approx. Weight (KG)
	Sch 10S	Sch 40S/ STD	Sch 80S/ STD											
	do			C	t	H	A	M	G	f		h	D	
1/2"	17.1	15.8	13.9	95.2	14.2	52.3	21.3	38.1	35.0	1.6	4	15.7	66.5	0.8
3/4"	22.5	20.9	18.8	117.3	15.7	57.1	26.7	47.7	42.9	1.6	4	19.0	82.5	1.3
1"	27.9	26.6	24.5	123.9	17.5	62.0	33.5	53.8	50.8	1.6	4	19.0	88.9	1.6
1.1/4"	36.6	35.1	32.5	133.3	19.0	65.0	42.2	63.5	63.5	1.6	4	19.0	98.5	2.1
1.1/2"	42.7	40.9	38.1	155.4	20.6	68.3	48.3	69.8	73.1	1.6	4	22.3	114.3	3.0
2"	54.9	52.7	49.5	165.1	22.3	69.8	60.4	84.0	91.9	1.6	8	19.0	127.0	3.4
2.1/2"	67.2	62.7	59.0	190.5	25.4	76.2	73.1	100.0	104.6	1.6	8	22.3	149.3	5.2
3"	82.9	77.9	73.7	209.5	28.4	79.2	88.9	117.3	127.0	1.6	8	22.3	168.1	7.0
3.1/2"	95.6	90.1	85.5	228.6	30.2	81.0	101.6	133.3	139.7	1.6	8	22.3	184.1	8.7
4"	108.3	102.3	97.2	254.0	31.8	85.8	114.3	146.0	157.2	1.6	8	22.3	200.1	11.2
5"	134.4	128.2	122.3	279.4	35.0	98.5	141.2	177.8	185.6	1.6	8	22.3	234.9	16.0
6"	161.6	154.2	146.3	317.5	36.5	98.5	168.4	206.2	215.9	1.6	12	22.3	269.7	20.0
8"	211.6	202.7	193.7	381.0	41.1	111.2	219.2	260.3	269.7	1.6	12	25.4	330.2	30.0
10"	264.6	254.5	247.7	444.5	47.7	117.3	273.0	320.5	323.8	1.6	16	28.6	387.3	43.0
12"	314.6	304.9	298.5	520.7	50.8	130.0	323.8	374.6	381.0	1.6	16	31.7	450.8	62.0
14"	346.0	336.6	330.2	584.2	53.8	142.7	355.6	425.4	412.7	1.6	20	31.7	514.3	86.0
16"	396.8	387.3	381.0	647.7	57.1	146.0	406.4	482.6	469.9	1.6	20	35.0	571.5	106.0
18"	447.6	438.1	431.8	711.2	60.4	158.7	457.2	533.4	533.4	1.6	24	35.0	628.6	131.0
20"	497.0	488.9	482.6	774.7	63.5	162.0	508.0	587.2	584.2	1.6	24	35.0	685.8	158.0
22"	547.7	539.7	533.4	838.2	66.7	165.1	558.8	641.2	641.2	1.6	24	41.1	742.9	195.0
24"	598.5	590.5	584.2	914.4	69.8	168.1	609.6	701.5	692.1	1.6	24	41.1	812.8	230.0

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ANSI /ASTM STANDARD - 600# WNRF

WELDING NECK FLANGE (RAISED FACE)



Nominal Pipe Size	Dia. of Bore (mm)			Outside Dia. (mm)	Thickness Min. (mm)	Length Thru. Hub (mm)	Outside Dia. of Neck (mm)	Dia. at Base of Neck (mm)	Dia. of Raised Face (mm)	Height of Raised Face (mm)	Number of Bolt Holes	Dia. of Bolt Holes (mm)	Dia. of Bolt Circle (mm)	Approx. Weight (KG)
	Sch 10S	Sch 40S/ STD	Sch 80S/ STD											
	do			C	t	H	A	M	G	f		h	D	
1/2"	17.1	15.8	13.9	95.3	14.2	52.3	21.3	38.1	34.9	6.4	4	15.7	66.5	0.9
3/4"	22.5	20.9	18.8	117.3	15.7	57.2	26.7	47.8	42.9	6.4	4	19.1	82.6	1.5
1"	27.9	26.6	24.5	124.0	17.5	62.0	33.5	53.8	50.8	6.4	4	19.1	88.9	1.8
1.1/4"	36.6	35.1	32.5	133.4	20.6	66.5	42.2	63.5	63.5	6.4	4	19.1	98.6	2.5
1.1/2"	42.7	40.9	38.1	155.4	22.4	69.9	48.3	69.9	73.0	6.4	4	22.4	114.3	3.5
2"	54.9	52.7	49.5	165.1	25.4	73.2	60.5	84.1	92.1	6.4	8	19.1	127.0	4.4
2.1/2"	67.2	62.7	59.0	190.5	28.4	79.2	73.2	100.1	104.8	6.4	8	22.4	149.4	6.4
3"	82.9	77.9	73.7	209.6	31.8	82.6	88.9	117.3	127.0	6.4	8	22.4	168.1	8.6
3.1/2"	95.6	90.1	85.5	228.6	35.1	85.9	101.6	133.4	139.7	6.4	8	25.4	184.2	11.7
4"	108.3	102.3	97.2	273.1	38.1	101.6	114.3	152.4	157.2	6.4	8	25.4	215.9	18.0
5"	134.4	128.2	122.3	330.2	44.5	114.3	141.2	189.0	185.7	6.4	8	28.4	266.7	30.0
6"	161.6	154.2	146.3	355.6	47.8	117.3	168.4	222.3	215.9	6.4	12	28.4	292.1	35.0
8"	211.6	202.7	193.7	419.1	55.6	133.4	219.2	273.1	269.9	6.4	12	31.8	349.3	54.0
10"	264.6	254.5	247.7	508.0	63.5	152.4	273.1	342.9	323.8	6.4	16	35.1	431.8	87.0
12"	314.6	304.9	298.5	558.8	66.5	155.4	323.9	400.1	381.0	6.4	20	35.1	489.0	103.0
14"	346.0	336.6	330.2	603.3	69.9	165.1	355.6	431.8	412.8	6.4	20	38.1	527.1	122.0
16"	396.8	387.3	381.0	685.8	76.2	177.8	406.4	495.3	469.9	6.4	20	41.1	603.3	170.0
18"	447.6	438.1	431.8	743.0	82.6	184.2	457.2	546.1	533.4	6.4	20	44.5	654.1	204.0
20"	497.0	488.9	482.6	812.8	88.9	190.5	508.0	609.6	584.2	6.4	24	44.5	723.9	254.0
22"	547.7	539.7	533.4	869.9	95.2	196.8	558.8	666.7	641.2	6.4	24	47.6	777.9	281.0
24"	598.5	590.5	584.2	939.8	101.6	203.2	609.6	717.6	692.2	6.4	24	50.8	838.2	358.0

ANSI /ASTM STANDARD - 900# WNRF

WELDING NECK FLANGE (RAISED FACE)

Nominal Pipe Size	Dia. of Bore (mm)			Outside Dia. (mm)	Thickness Min. (mm)	Length Thru. Hub (mm)	Outside Dia. of Neck (mm)	Dia. at Base of Neck (mm)	Dia. of Raised Face (mm)	Height of Raised Face (mm)	Number of Bolt Holes	Dia. of Bolt Holes (mm)	Dia. of Bolt Circle (mm)	Approx. Weight (KG)
	Sch 10S	Sch 40S/ STD	Sch 80S/ STD											
	do			C	t	H	A	M	G	f		h	D	
1/2"	17.1	15.8	13.9	120.6	22.3	60.4	21.3	38.1	35.0	6.4	4	22.3	82.5	2.3
3/4"	22.5	20.9	18.8	130.2	25.4	69.8	26.7	44.4	42.9	6.4	4	22.3	88.9	2.7
1"	27.9	26.6	24.5	149.3	28.4	73.1	33.4	52.3	50.8	6.4	4	25.4	101.6	4.1
1.1/4"	36.6	35.1	32.5	158.7	28.4	73.1	42.2	63.5	63.5	6.4	4	25.4	111.2	4.5
1.1/2"	42.7	40.9	38.1	177.8	31.7	82.5	48.3	69.8	73.1	6.4	4	28.4	123.9	5.9
2"	54.9	52.7	49.5	215.9	38.1	101.6	60.3	104.6	91.9	6.4	8	25.4	165.1	11.3
2.1/2"	67.2	62.7	59.0	244.3	41.1	104.6	73.0	123.9	104.6	6.4	8	28.4	190.5	16.3
3"	82.9	77.9	73.7	241.3	38.1	101.6	88.9	127.0	127.0	6.4	8	25.4	190.5	14.0
4"	108.3	102.3	97.2	292.1	44.4	114.3	114.3	158.7	157.2	6.4	8	31.7	234.9	23.0
5"	134.4	128.2	122.3	349.2	50.8	127.0	141.2	190.5	185.6	6.4	8	35.0	279.4	38.0
6"	161.6	154.2	146.3	381.0	55.6	139.7	168.4	234.9	215.9	6.4	12	31.7	317.5	48.0
8"	211.6	202.7	193.7	469.9	63.5	162.0	219.2	298.4	269.7	6.4	12	38.1	393.7	82.0
10"	264.6	254.5	247.7	546.1	69.8	184.1	273.0	368.3	323.8	6.4	16	38.1	469.9	119.0
12"	314.6	304.9	298.5	609.6	79.2	200.1	323.8	419.1	381.0	6.4	20	38.1	533.4	157.0
14"	346.0	336.6	330.2	641.3	85.8	212.8	355.6	450.8	412.7	6.4	20	41.1	558.8	180.0
16"	396.8	387.3	381.0	704.8	88.9	215.9	406.4	508.0	469.9	6.4	20	44.4	615.9	217.0
18"	447.6	438.1	431.8	787.4	101.6	228.6	457.2	565.1	533.4	6.4	20	50.8	685.8	298.0
20"	497.0	488.9	482.6	857.2	107.9	247.6	508.0	622.3	584.2	6.4	20	53.8	749.3	362.0
24"	598.5	590.5	584.2	1041.4	139.7	292.1	609.6	749.3	692.1	6.4	20	66.5	901.7	665.0



ISO 9001 ISO 14001 ISO 29001 ISO 45001 ISO 9001 ISO 14001 ISO 29001 ISO 45001 ISO 9001 ISO 14001

