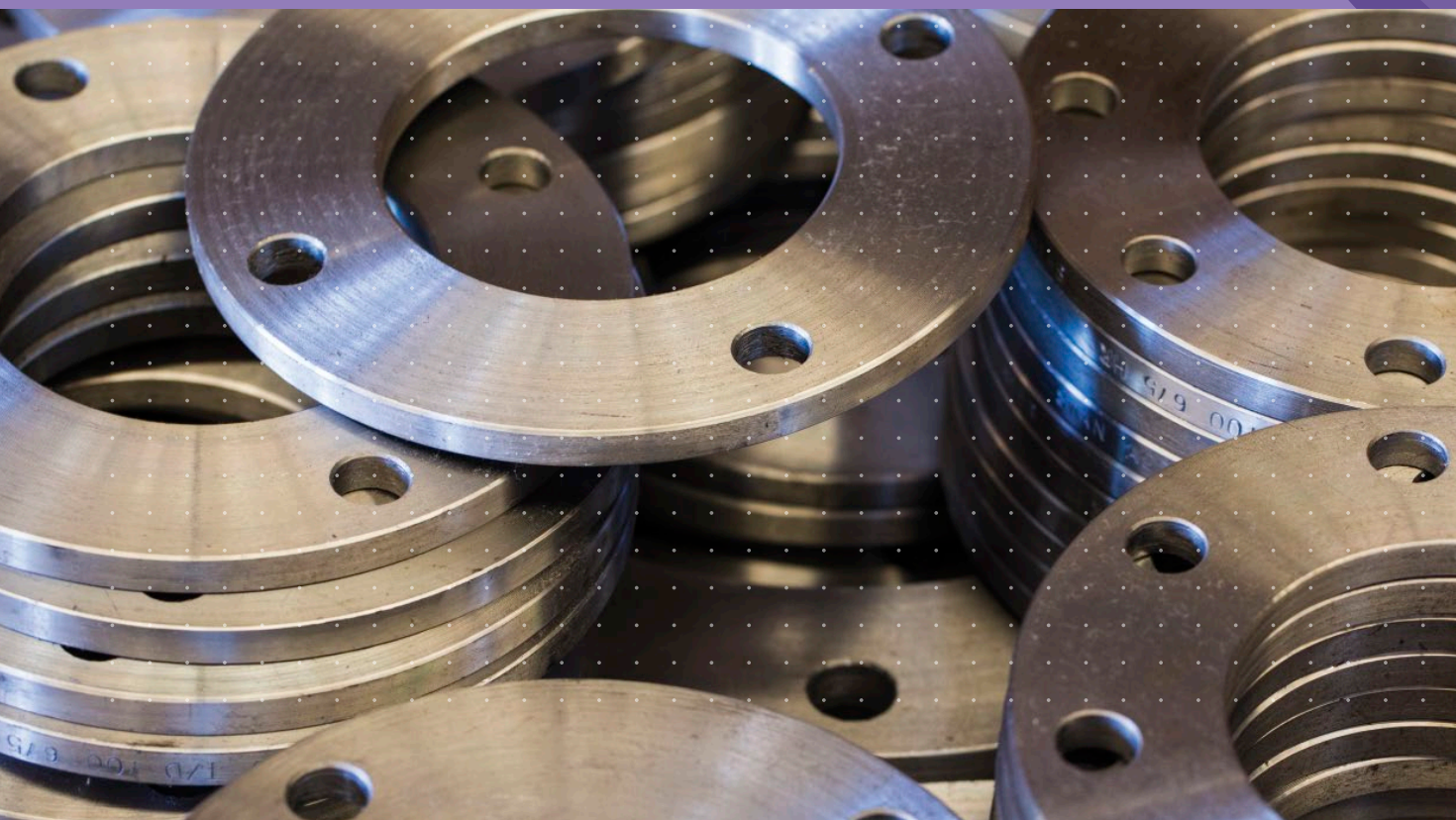


# 03 FLANGES

FLANGES



# Flanges

COMPARISON TABLE

NOMINAL PIPE SIZE (mm)	FLANGE STANDARDS		FLANGE DIMENSIONS (MM)					
	NAME	RATING	OD	PCD	BOLT NO. OFF	DIA	THICKNESS	
							CAST IRON	STEEL
25 mm	JIS	10	125	90	4	M16	18	14
		16	125	90	4	M16	18	14
		20	125	90	4	M16	18	14
	ANSI	125/150	108	79	4	M16	11	14
		300	124	89	4	M16	-	17
	AS2129	A	115	83	4	M12	13	12
		D	115	83	4	M12	13	12
		E	115	83	4	M12	13	12
		F	120	87	4	M16	13	12
		H	120	87	4	M16	19	
	DIN	6	100	75	4	M10	14	14
10		115	85	4	M12	16	16	
16		115	85	4	M12	16	16	
25		115	85	4	M12			
1 in		40	115	85	4	M12		
32 mm	JIS	10	135	100	4	M16	20	16
		16	135	100	4	M16	20	16
		20	135	100	4	M16	20	18
	ANSI	125/150	118	89	4	M16	13	16
		300	133	98	4	M16	-	20
	AS2129	A	120	87	4	M12	13	12
		D	120	87	4	M12	13	12
		E	120	87	4	M12	13	12
		F	135	98	4	M16	13	12
		H	135	98	4	M16	19	
	DIN	6	120	90	4	M12	16	16
10		140	100	4	M16	18	16	
16		140	100	4	M16	18	16	
25		140	100	4	M16			
1 ¼ in		40	140	100	4	M16		
40 mm	JIS	10	140	105	4	M16	20	16
		16	140	105	4	M16	20	16
		20	140	105	4	M16	22	18
	ANSI	125/150	127	98	4	M16	14	18
		300	156	114	4	M16	-	21
	AS2129	A	135	98	4	M12	16	12
		D	135	98	4	M12	16	12
		E	135	98	4	M12	16	12
		F	140	105	4	M16	16	13
		H	140	105	4	M16	22	17
	DIN	6	130	100	4	M12	16	16
10		150	110	4	M16	18	16	
16		150	110	4	M16	18	16	
25		150	110	4	M16			
1 ½ in		40	150	110	4	M16		
50 mm	JIS	5	130	105	4	M12	16	14
		10	155	120	4	M16	20	16
		16	155	120	8	M16	20	16
	ANSI	125/150	152	121	4	M16	18	19
		300	165	127	8	M16	-	22
	AS2129	A	150	114	4	M16	16	12
		D	150	114	4	M16	17	12
		E	150	114	4	M16	19	12
		F	165	127	4	M16	19	16
		H	165	127	4	M16	25	19
	DIN	6	140	110	4	M12	16	16
10		165	125	4	M16	20	18	
16		165	125	4	M16	20	18	
25		165	125	4	M16			
2 in		40	165	125	4	M16		

NOMINAL PIPE SIZE (mm)	FLANGE STANDARDS		FLANGE DIMENSIONS (MM)					
	NAME	RATING	OD	PCD	BOLT NO. OFF	DIA	THICKNESS	
							CAST IRON	STEEL
65 mm	JIS	5	155	130	4	M12	18	14
		10	175	140	4	M16	22	18
		16	175	140	8	M16	22	18
		20	175	140	8	M16	24	20
	ANSI	125/150	178	140	4	M12	18	22
		300	191	149	8	M20	-	25
	AS2129	A	165	127	4	M16	17	12
		D	165	127	4	M16	17	12
		E	165	127	4	M16	19	12
		F	185	146	4	M16	19	16
		H	185	146	8	M16	25	19
	DIN	6	160	130	4	M12	16	16
10		185	145	4	M16	20	18	
16		185	145	4	M16	20	18	
25		185	145	8	M16			
2 ½ in		40	185	145	8	M16		
80 mm	JIS	5	180	145	4	M16	18	14
		10	185	150	4	M16	22	18
		16	200	165	8	M20	24	20
	ANSI	125/150	191	152	4	M16	19	24
		300	210	168	8	M20	-	29
	AS2129	A	185	146	4	M16	17	12
		D	185	146	4	M16	19	12
		E	185	146	4	M16	19	12
		F	205	165	8	M16	19	16
		H	205	165	8	M16	29	2
	DIN	6	190	150	4	M16	18	18
10		200	160	8	M16	22	20	
16		200	160	8	M16	22	20	
25		200	160	8	M16			
3 in		40	200	160	8	M16		
90 mm	JIS	not listed						
	ANSI	125/150	216	178	8	M16	-	24
		300	229	184	8	M20	-	30
	AS2129	A	205	165	4	M16	-	12
		D	205	165	4	M16	-	12
		E	205	165	8	M16	-	12
F		215	178	8	M16	-	19	
H		215	178	8	M16	-	22	
3 ½ in	DIN	not listed						
100 mm	JIS	5	200	165	8	M16	20	16
		10	210	175	8	M16	24	18
		16	225	185	8	M20	26	22
	ANSI	125/150	230	191	8	M16	24	24
		300	254	200	8	M20	-	32
	AS2129	A	215	178	4	M16	19	12
		D	215	178	4	M16	19	12
		E	215	178	8	M16	22	13
		F	230	191	8	M16	22	19
		H	230	191	8	M16	32	25
	DIN	6	210	170	4	M16	18	18
10		220	180	8	M16	24	20	
16		220	180	8	M16	24	20	
25		235	190	8	M20			
4 in		40	265	180	8	M20		

## COMPARISON TABLE

NOMINAL PIPE SIZE (mm)	FLANGE STANDARDS		FLANGE DIMENSIONS (MM)					
	NAME	RATING	OD	PCD	BOLT NO. OFF	DIA	THICKNESS	
						CAST IRON	STEEL	
125 mm	JIS	5	235	200	8	M16	20	16
		10	250	210	8	M20	24	20
		16	270	225	8	M22	36	22
		20	270	225	8	M22	30	26
	ANSI	125/150	254	216	8	M20	24	24
		300	279	235	8	M20	24	35
	AS2129	A	225	210	4	M16	19	13
		D	225	210	8	M16	21	13
		E	225	210	8	M16	22	14
		F	280	235	8	M20	25	22
		H	280	235	8	M20	35	29
	DIN	6	240	200	8	M16	20	20
10		250	210	8	M16	26	22	
16		250	210	8	M16	26	22	
25		270	220	8	M24			
40	270	220	8	M24				

150 mm	JIS	5	265	230	8	M16	22	18
		10	280	240	8	M20	26	22
		16	305	260	12	M22	28	24
		20	305	260	12	M22	32	28
	ANSI	125/150	279	241	8	M20	25	25
		300	318	270	12	M20	37	29
	AS2129	A	280	235	4	M16	21	13
		D	280	235	8	M16	21	13
		E	280	235	8	M20	22	17
		F	305	260	12	M20	25	22
		H	305	260	12	M20	35	29
	DIN	6	265	225	8	M16	20	20
10		285	240	8	M20	26	22	
16		285	240	8	M20	26	22	
25		300	250	8	M24			
40	300	250	8	M24				

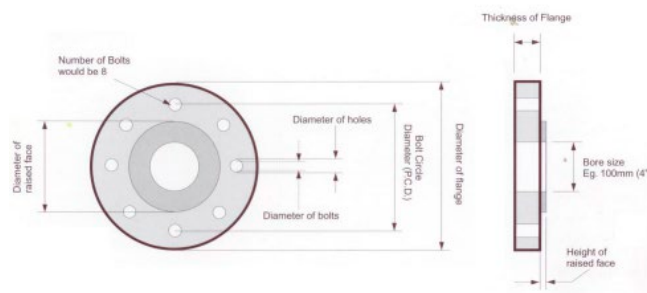
200 mm	JIS	5	320	280	8	M20	24	20
		10	330	290	12	M20	26	22
		16	350	305	12	M22	30	26
		20	350	305	12	M22	34	30
	ANSI	125/150	343	299	8	M20	29	29
		300	381	330	12	M22	41	12
	AS2129	A	335	292	8	M16	22	13
		D	335	292	8	M16	22	13
		E	335	292	8	M20	25	19
		F	370	324	12	M20	29	25
		H	370	324	12	M20	28	32
	DIN	6	320	280	8	M16	22	22
10		340	295	8	M20	26	24	
16		340	295	12	M20	30	24	
25		360	310	12	M24			
40	375	320	12	M27				

250 mm	JIS	5	385	345	12	M20	26	22
		10	400	355	12	M22	30	26
		16	430	380	12	M22	34	30
		20	430	380	8	M20	29	29
	ANSI	125/150	406	362	12	M22	41	12
		300	445	387	8	M16	22	13
	AS2129	A	405	356	8	M16	22	13
		D	405	356	8	M20	25	19
		E	405	356	12	M20	29	25
		F	430	381	12	M20	28	32
		H	430	381	8	M16	22	22
	DIN	6	375	335	8	M20	26	24
10		395	350	12	M20	30	24	
16		405	355	12	M24			
25		425	370	12	M27			
40	450	385	12	M30				

NOMINAL PIPE SIZE (mm)	FLANGE STANDARDS		FLANGE DIMENSIONS (MM)					
	NAME	RATING	OD	PCD	BOLT NO. OFF	DIA	THICKNESS	
						CAST IRON	STEEL	
300 mm	JIS	5	430	390	12	M20	28	22
		10	445	400	16	M22	32	24
		16	480	430	16	M24	36	30
		20	480	430	16	M24	40	36
	ANSI	125/150	483	432	12	M22	32	32
		300	521	451	16	M27	-	51
	AS2129	A	455	406	8	M20	24	19
		D	455	406	12	M20	25	19
		E	455	406	12	M24	29	25
		F	490	438	16	M24	32	32
		H	490	438	16	M24	44	41
	DIN	6	440	395	12	M20	24	24
10		445	400	12	M20	28	26	
16		460	410	12	M24	32	28	

350 mm	JIS	5	480	435	12	M22	30	24
		10	490	445	16	M22	34	26
		16	540	480	16	M30	34	34
		20	540	480	16	M30	38	40
	ANSI	125/150	533	476	12	M27	35	35
		300	584	514	20	M27	-	54
	AS2129	A	525	470	8	M24	25	22
		D	525	470	12	M24	29	22
		E	525	470	12	M24	32	29
		F	550	495	16	M27	35	35
		H	550	495	16	M27	48	48
	DIN	6	490	445	12	M20	26	26
10		505	460	16	M20	30	28	
16	520	470	16	M24	36	32		

400 mm	JIS	5	540	495	16	M22	30	24
		10	560	510	16	M24	36	28
		16	605	540	16	M30	42	28
		20	605	540	16	M30	50	46
	ANSI	125/150	597	540	16	M27	37	37
		300	648	572	20	M33	-	57
	AS2129	A	580	521	12	M24	29	22
		D	580	521	12	M24	29	22
		E	580	521	12	M24	32	32
		F	610	552	20	M27	35	41
		H	610	552	20	M27	51	54
	DIN	6	540	495	16	M20	28	28
10		565	515	16	M24	32	32	
16	580	525	16	M27	38	36		



## 03.1 :: Threaded Flanges



### Threaded BSP

SIZE (mm)	GAL STEEL "E"	BLACK STEEL "E"	316 STAINLESS STEEL TABLE "E"	316 STAINLESS STEEL ANSI 150#	GAL MAL TABLE "D"
15	I384 SG015	I384 SB015	I636 TBSP15	I636 ASC015	484 0015
20	I384 SG020	I384 SB020	I636 TBSP20	I636 ASC020	484 0020
25	I384 SG025	I384 SB025	I636 TBSP25	I636 ASC025	484 0025
32	I384 SG032	I384 SB032	I636 TBSP32	I636 ASC032	484 0032
40	I384 SG040	I384 SB040	I636 TBSP40	I636 ASC040	484 0040
50	I384 SG050	I384 SB050	I636 TBSP50	I636 ASC050	484 0050
65	I384 SG065		I636 TBSP65	I636 ASC065	484 0065
80	I384 SG080		I636 TBSP80	I636 ASC080	484 0080
100	I384 SG100		I636 TBSP100	I636 ASC100	484 0100
					484 0150

## American Standard Flanges – ANSI B16.5

## Slip On Weld

SIZE (mm)	ANSI 150#	ANSI 300#	ANSI 316 STAINLESS STEEL
15	I384 A015	I384 3015	I636 A015
20	I384 A020	I384 3020	I636 A020
25	I384 A025	I384 3025	I636 A025
32	I384 A032	I384 3032	I636 A032
40	I384 A040	I384 3040	I636 A040
50	I384 A050	I384 3050	I636 A050
65	I384 A065	I384 3065	I636 A065
80	I384 A080	I384 3080	I636 A080
100	I384 A100	I384 3100	I636 A100
125	I384 A125		I636 A125
150	I384 A150		I636 A150
200	I384 A200		I636 A200
250	I384 A250		
300	I384 A300		



## Blind Flanges

SIZE (mm)	CARBON STEEL ANSI 150#	CARBON STEEL ANSI 300#	STAINLESS STEEL 316
15	I384 AB015	I384 3015B	I636 AB015
20	I384 AB020	I384 3020B	I636 AB020
25	I384 AB025	I384 3025B	I636 AB025
32	I384 AB032	I384 3032B	I636 AB032
40	I384 AB040	I384 3040B	I636 AB040
50	I384 AB050	I384 3050B	I636 AB050
65	I384 AB065	I384 3065B	I636 AB065
80	I384 AB080	I384 3080B	I636 AB080
100	I384 AB100	I384 3100B	I636 AB100
125	I384 AB125		I636 AB125
150	I384 AB150		I636 AB150
200	I384 AB200		I636 AB200
250	I384 AB250		
300	I384 AB300		
350	I384 AB350		
400	I384 AB400		



## 03.2 :: ANSI Flanges

### American Standard Flanges – ANSI B16.5 continued



Threaded			
SIZE (mm)	ANSI 150# BSP THREADED	ANSI 150 NPT	ANSI 300 NPT
15	I384 ASCB15	I384 ASCN15	I384 ASCN 3015
20	I384 ASCB20	I384 ASCN20	I384 ASCN 3020
25	I384 ASCB25	I384 ASCN25	I384 ASCN 3025
32	I384 ASCB32	I384 ASCN32	I384 ASCN 3032
40	I384 ASCB40	I384 ASCN40	I384 ASCN 3040
50	I384 ASCB50	I384 ASCN50	I384 ASCN 3050
65	I384 ASCB65	I384 ASCN65	I384 ASCN 3065
80	I384 ASCB80	I384 ASCN80	I384 ASCN 3080
100	I384 ASCB100	I384 ASCN100	I384 ASCN 3100



Socket Weld			
SIZE (mm)	ANSI 150# SOCKET WELD	ANSI 150LB EXTRA STRONG	ANSI 300LB
15	I384 ASW15	I384 ASWXS15	I384 ASW3015
20	I384 ASW20	I384 ASWXS20	I384 ASW020
25	I384 ASW25	I384 ASWXS25	I384 ASW3025
32	I384 ASW32	I384 ASWXS32	I384 ASW3032
40	I384 ASW40	I384 ASWXS40	I384 ASW3040
50	I384 ASW50	I384 ASWXS50	I384 ASW3050



Weld Neck					
SIZE (mm)	ANSI 150# STANDARD WEIGHT	ANSI 150# EXTRA STRONG	ANSI 150 SCH 80	ANSI 300 STANDARD WEIGHT	ANSI 300 EXTRA STRONG
15	I384 AWN15	I384 AWNXS15			
20	I384 AWN20	I384 AWNXS20			
25	I384 AWN25	I384 AWNXS25			
32	I384 AWN32	I384 AWNXS32			
40	I384 AWN40	I384 AWNXS40		I384 AWN3040	I384 AWNXS 3050
50	I384 AWN50	I384 AWNXS50		I384 AWN3050	
65	I384 AWN65	I384 AWNXS65			
80	I384 AWN180	I384 AWNXS80		I384 AWN3080	I384 AWNXS 3080
100	I384 AWN100	I384 AWNXS100		I384 AWN3100	I384 AWNXS 3100
150	I384 AWN150	I384 AWNXS150		I384 AWN3150	I384 AWNXS 3150
200	I384 AWN200	I384 AWNXS200		I384 AWN3200	I384 AWNXS3 200
250			I384 AWNS80250		
300			I384 AWNS80300		
350					
400			I384 AWNS80400		
450					

German Standard Flanges – DIN 2527

British Metric - BS4087

**Slip On Flanges PN16 Rated**

SIZE (mm)	PN16
15	I384 PN1615
20	I384 PN1620
25	I384 PN1625
32	I384 PN1632
40	I384 PN1640
50	I384 PN1650
65	I384 PN1665
80	I384 PN1680
100	I384 PN16100
125	I384 PN16125
150	I384 PN16150
200	I384 PN16200
250	I384 PN16250
300	I384 PN16300



**Blind Flanged PN16 Rated**

SIZE (mm)	PN16
15	I384 PN1615B
20	I384 PN1620B
25	I384 PN1625B
32	I384 PN1632B
40	I384 PN1640B
50	I384 PN1650B
65	I384 PN1665B
80	I384 PN1680B
100	I384 PN16100B
150	I384 PN16150B



## 03.4 :: JIS Flanges

### Japanese Industrial Standard (JIS)



#### Slip On Flanges

SIZE (mm)	JIS 5K	JIS 10K	JIS16K	JIS 5 316 STAINLESS STEEL
15	I384 5K015	I384 10K015	I384 10K015	I636 5K15
20	I384 5K020	I384 10K020	I384 10K020	I636 5K20
25	I384 5K025	I384 10K025	I384 10K025	I636 5K25
32	I384 5K032	I384 10K032	I384 10K032	I636 5K32
40	I384 5K040	I384 10K040	I384 10K040	I636 5K40
50	I384 5K050	I384 10K050	I384 16K050	I636 5K50
65	I384 5K065	I384 10K065	I384 16K065	I636 5K65
80	I384 5K080	I384 10K080	I384 16K080	I636 5K80
100	I384 5K100	I384 10K100	I384 16K100	I636 5K100
125	I384 5K125	I384 10K125	I384 16K125	
150	I384 5K150	I384 10K150	I384 16K150	
200	I384 5K200	I384 10K200	I384 16K200	
250	I384 5K250			
300	I384 5K300			



#### Blind JIS

SIZE (mm)	JIS 5K	JIS 10K	JIS 16K
15	I384 5K015B	I384 10K015B	I384 16K015B
20	I384 5K020B	I384 10K020B	I384 16K20B
25	I384 5K025B	I384 10K025B	I384 16K25B
32	I384 5K032B	I384 10K032B	I384 16K32B
40	I384 5K040B	I384 10K040B	I384 16K40B
50	I384 5K050B	I384 10K050B	I384 16K050B
65	I384 5K065B	I384 10K065B	I384 16K065B
80	I384 5K080B	I384 10K080B	I384 16K080B
100	I384 5K100B	I384 10K100B	I384 16K100B
125	I384 5K125B	I384 10K125B	I384 16K125B
150	I384 5K150B	I384 10K150B	I384 16K150B
200	I384 5K200B	I384 10K200B	I384 16K200B
250	I384 5K250B		
300	I384 5K300B		



Australia Standard

Slip On Flanges

SIZE (mm)	BLACK TABLE "E"	BLACK TABLE "D"	BLACK TABLE "H"	316 S/S TABLE "E"
15	I384 E015	USE TABLE E	I384 H015	I636 E015
20	I384 E020	USE TABLE E	I384 H020	I636 E020
25	I384 E025	USE TABLE E	I384 H025	I636 E025
32	I384 E032	USE TABLE E	I384 H032	I636 E032
40	I384 E040	USE TABLE E	I384 H040	I636 E040
50	I384 E050	USE TABLE E	I384 H050	I636 E050
65	I384 E065	USE TABLE E	I384 H065	I636 E065
80	I384 E080	USE TABLE E	I384 H080	I636 E080
100	I384 E100	I384 D100	I384 H100	I636 E100
125	I384 E125	I384 D125	I384 H125	I636 E125
150	I384 E150	I384 D150	I384 H150	I636 E150
200	I384 E200	I384 D200	I384 H200	I636 E200
250	I384 E250	I384 D250		
300	I384 E300	I384 D300		
350	I384 E350	I384 D350		
400	I384 E400	I384 D400		
450	I384 E450			



Blind Flanges

SIZE (mm)	BLACK TABLE "E"	BLACK TABLE "D"	BLACK TABLE "H"	316 S/S TABLE "E"
15	I384 EB015	USE TABLE E	I384 HB015	I636 EB015
20	I384 EB020	USE TABLE E	I384 HB020	I636 EB020
25	I384 EB025	USE TABLE E	I384 HB025	I636 EB025
32	I384 EB032	USE TABLE E	I384 HB032	I636 EB032
40	I384 EB040	USE TABLE E	I384 HB040	I636 EB040
50	I384 EB050	USE TABLE E	I384 HB050	I636 EB050
65	I384 EB065	USE TABLE E	I384 HB065	I636 EB065
80	I384 EB080	USE TABLE E	I384 HB080	I636 EB080
100	I384 EB100	I384 DB100	I384 HB100	I636 EB100
125	I384 EB125	I384 DB125	I384 HB125	I636 EB125
150	I384 EB150	I384 DB150	I384 HB150	I636 EB150
200	I384 EB200	I384 DB200	I384 HB200	I636 EB200
250	I384 EB250	I384 DB250		
300	I384 EB300	I384 DB300		
350	I384 EB350	I384 DB350		
400	I384 EB400	I384 DB400		
450	I384 E450			



## 03.5 :: Table E, D & H Flanges

### Australian Standard continued



#### 3mm Nitrile Full Face Gaskets

SIZE (mm)	TABLE "E"	TABLE "H"	JIS 5K	JIS 10K	JIS16K	PN16
15	484 RG15	I384 HG015	I384 5KG15	I384 10KG15	SAME AS 10K	I384 PN16G15
20	484 RG20	I384 HG020	I384 5KG20	I384 10KG20	SAME AS 10K	I384 PN16G20
25	484 RG25	I384 HG025	I384 5KG25	I384 10KG25	SAME AS 10K	I384 PN16G25
32	484 RG32	I384 HG032	I384 5KG32	I384 10KG32	SAME AS 10K	I384 PN16G32
40	484 RG40	I384 HG040	I384 5KG40	I384 10KG40	SAME AS 10K	I384 PN16G40
50	484 RG50	I384 HG050	I384 5KG50	I384 10KG50	I384 16KG50	I384 PN16G50
65	484 RG65	I384 HG065	I384 5KG65	I384 10KG65	I384 16KG65	I384 PN16G65
80	484 RG80	I384 HG080	I384 5KG80	I384 10KG80	I384 16KG80	I384 PN16G80
100	484 RG100	I384 HG100	I384 5KG100	I384 10KG100	I384 16KG100	I384 PN16G100
125	484 RG125	I384 HG125	I384 5KG125	I384 10KG125	I384 16KG150	I384 PN16G125
150	484 RG150	I384 HG200	I384 5KG150	I384 10KG150	I384 16KG200	I384 PN16G150
200	484 RG200		I384 5KG200	I384 10KG200	I384 16KG200	I384 PN16G200
250	484 RG250		I384 5KG250	I384 10KG250		
300	484 RG300					
350	484 RG350					

**1.5mm Fibre Gaskets**

SIZE (mm)	TABLE "E" FULL FACE	ANSI 150# RING	ANSI 150# 16KG	ANSI FULL FACE
15	484 EG015	484 RF015		484 FF15
20	484 EG020	484 RF020	I384 16K20B	484 FF20
25	484 EG025	484 RF025	I384 16K25B	484 FF25
32	484 EG032	484 RF032	I384 16K32B	484 FF32
40	484 EG040	484 RF040	I384 16K40B	484 FF40
50	484 EG050	484 RF050	I384 16K050B	484 FF50
65	484 EG065	484 RF065	I384 16K065B	484 FF65
80	484 EG080	484 RF080	I384 16K080B	484 FF80
100	484 EG100	484 RF100	I384 16K100B	484 FF100
125	484 EG125	484 RF125	I384 16K125B	484 FF125
150	484 EG150	484 RF150	I384 16K150B	484 FF150
200	484 EG200	484 RF200	I384 16K200B	484 FF200
250	484 EG250	484 RF250		484 FF250
300	484 EG300	484 RF300		
		484 RF350		



**Specials Gaskets**

SIZE (mm)	ANSI 150# SPIRAL WOUND SS INNER/OUTER	TABLE "D" GRAPHITE EXHAUST GASKET	TABLE "D" NITRILE TUBE GASKETS
15	484 SR15		
20	484 SR20		
25	484 SR25		484 NGT25
32	484 SR32		484 NGT32
40	484 SR40		484 NGT40
50	484 SR050	484 DGR050	484 NGT50
65	484 SR065	484 DGR065	484 NGT65
80	484 SR080	484 DGR080	484 NGT80
100	484 SR100	484 DGR100	484 NGT100
125	484 SR125	484 DGR125	
150	484 SR150	484 DGR150	
200	484 SR200	484 DGR200	
250	484 SR250		
300	484 SR300		
350			



Other Types, Materials, Sizes and Standards are available upon request

## Notes

A large grid of small dots for taking notes, covering most of the page.