## **Oversized Flat Washers**

Have a wider surface than standard flat washers to cover oversized holes and distribute the load over a broader area. The expanded surface area provides additional reinforcement for use in sheet metal and

	ing applic	ations.			
For Screw Size 18-8 St	Inside Diameter tainless Ste	Outside Diameter	Maximum Thickness	Item No.	Pkg. Qty.
1/4 in	0.281 in 0.281 in	1 in 1 ¼ in	0.05 in 0.05 in	36RK40 36RK41	* 25 * 25
	0.281 in	1 ½ in	0.062 in	36RK42	* 25
5∕16 in	0.344 in 0.406 in	1 ½ in 1 ½ in	0.062 in 0.062 in	36RK45 36RK47	* 10 * 10
3/8 in	0.406 in	2 in	0.062 in	36RK49	* 10
M6 M8	6.4 mm	18 mm	1.6 mm 2 mm	36RK59 36RK60	† 50 † 25
	8.4 mm tainless Ste	24 mm el, Plain	2 111111	JUNKUU	
#6	0.156 in 0.156 in	5/16 in 9/16 in	0.063 in 0.047 in	22UF88 19NR83	# 50 ‡ 50
#8	0.156 in	3∕8 in	0.063 in	22UF90	# 50
#10	0.188 in 0.188 in	½ in ½ in	0.063 in 0.094 in	19NR85 22UF93	‡ 50 # 50
1/8 in	0.156 in	5⁄8 in	0.065 in	35YU95	± 50
	0.188 in 0.188 in	½ in ¾ in	0.065 in 0.08 in	35YU97 19NR88	± 50 ± 50
3∕16 in	0.188 in	1 in	0.08 in	19NR87	± 50
	0.223 in 0.223 in	1 ½ in 1 ½ in	0.08 in 0.08 in	22UE81 35YU98	± 50 ± 50
	0.281 in	½ in	0.047 in 0.078 in 0.063 in	22UE82	± 50
	0.281 in 0.281 in	½ in %16 in	0.078 in 0.063 in	22UF95 22UE83	# 50 ‡ 50
	0.281 in	5⁄8 in	0.151 in	22UF97	# 50
	0.281 in 0.281 in	% in 1 ⅓ in	0.221 in 0.151 in	22UF98 22UE87	# 50 ‡ 50
1/4 in	0.285 in	7⁄8 in	0.08 in	22UE84	± 50
	0.285 in 0.285 in	1 in 1 ¼ in	0.08 in 0.08 in	22UE85 22UE86	‡ 50 ‡ 50
	0.285 in	1 ½ in	0.08 in	22UE88	± 50
	0.285 in 0.285 in	2 in 2 ½ in	0.08 in 0.08 in	22UE89 35YV01	‡ 50 ‡ 50
	0.285 in	3 in	0.08 in	35YV02	± 50
	0.313 in 0.344 in	2 ½ in % in	0.065 in 0.08 in	35YV07 22UE90	± 50 ± 50
	0.344 in	5% in 11/ <sub>16</sub> in	0.113 in	22UF99 22UG02	# 50 # 50
	0.344 in 0.344 in	3∕4 in	0.094 in 0.094 in	22UG04	# 50
5∕16 in	0.344 IN	3/4 in 3/4 in	0.151 in 0.221 in	22UG05 22UG06	# 50 # 50
710 111	0.344 in 0.348 in	⅓ in	0.08 in	35YV03	± 50
	0.348 in	1 ½ in	0.08 in 0.08 in	22UE91 22UE92	± 50 + 50
	0.348 in 0.348 in	1 ½ in 1 in	0.08 IN	35YV04	± 50 ± 50
	0.348 in 0.348 in 0.375 in	1 ¾ in 2 in	0.08 in 0.08 in	35YV06 22UE93	‡ 50 ‡ 50
	0.375 in	2 in 1 ¾ in	0.08 in 0.065 in	35YV09	± 50
	0.406 in 0.406 in	¾ in ⅓ in	0.109 in 0.151 in	22UG08 22UG10	# 50 # 50
	0.406 in 0.406 in	1 in	0.151 in 0.151 in 0.221 in	22UG11 22UG12	# 50 # 50 # 50
3⁄8 in	0.41 in	1 in 1 ¼ in	0.221 III 0.08 in	22UE94	± 50
	0.41 in 0.41 in	1 ½ in 1 % in	0.08 in 0.08 in	22UE95 22UE96	± 50 ± 50
	0.41 in	2 in	0.08 in	22UE97	± 50
	0.41 in 0.469 in	3 in 29/32 in	0.08 in 0.125 in	35YV10 22UG14	± 50 # 25
₹16 in	0.469 in	1 in	0.151 in	22UG15	# 25
	0.5 in 0.5 in	1 ¾ in 2 ½ in	0.065 in 0.065 in	35YV12 35YV13	‡ 25 ‡ 25
	0.531 in 0.531 in	1 ½6 in	0.221 in	22UG19	# 25
½ in	0.531 in 0.531 in	1 1/8 in 1 1/8 in	0.151 in 0.221 in	22UG20 22UG21	# 25 # 25
	0.535 in 0.535 in	1 ½ in	0.08 in	26WC53	‡ 25 ‡ 25
	0.535 in	1 ¼ in 2 in	0.08 in 0.08 in	35YV11 26WC54	± 25
9/16 in	0.535 in 0.594 in	3 in 1 <sup>13</sup> ⁄ <sub>16</sub> in	0.08 in	35YV14 22UG24	‡ 25 # 25
	0.656 in	1 5/16 in	0.08 in 0.221 in 0.252 in	22UG26	# 25
⅓ in	0.656 in 0.656 in	1 3/8 in 1 3/8 in	0.151 in 0.221 in	22UG27 22UG28	# 25 # 25
2/.	0.781 in	1 % in	0 25 in	22UG33	# 20
3⁄4 in	0.781 in 0.813 in	1 % in 1 ½ in	0.151 in 0.252 in	26WC58 26WC57	# 20 # 20
7∕8 in	0.906 in	1 3/4 in	0.25 in	22UG37	
1 in	1.031 in 1.031 in	2 in 2 in	0.221 in 0.25 in	22UG41 22UG42	# 5 # 5
	1.063 in	2 in	0.132 in	22UG44	# 5
11/4 in M4	1.375 in 4.3 mm	3 in 12 mm	0.165 in 1 mm	22UE36 26WC43	† 50
M5 M6	5.3 mm 6.4 mm	15 mm 18 mm	1.4 mm 1.8 mm	26WC44 6EU88	† 50 † 50
M8	8.4 mm	24 mm	2.2 mm	22UE76	† 50
M10 M12	10.5 mm 13 mm	30 mm 37 mm	2.7 mm 3.3 mm	22UE77 22UE78	† 50 † 25
M16	17 mm	37 mm 50 mm	3.3 mm	22UE79	10
-	ainless Ster 0.281 in	1 in	0.05 in	36RK52	* 25
1/4 in	0.281 in 0.281 in	1 1/4 in	0.05 in	งอกหอง	* 25 * 25 * 5
3⁄8 in	0.406 in	1 1/4 in	0.05 in	36RK56	* 5



For					ъ.
Screw Size	Inside Diameter	Outside Diameter	Maximum Thickness	Item No.	Pkg.
	ainless Ste	el. Plain	THICKHESS	NU.	Qty.
#8	0.188 in	11/16 in	0.047 in	22UF02	± 50
1/8 in	0.156 in	3∕4 in	0.065 in	22UE99	± 50
	0.188 in 0.223 in	½ in 1 in	0.065 in	22UF01 22UF04	‡ 50 ‡ 50
3∕16 in	0.223 in	1 1/4 in	0.08 in 0.08 in	22UF05	± 50
	0.223 in	1 1/6 in	0.08 in	35YV17 35YV20	+ 50
	0.223 in 0.25 in	3 in	0.065 in	35YV20	± 50
	0.281 in	1/2 IN	0.047 in	22UF06	± 50
	0.281 in 0.285 in	% in % in	0.063 in 0.08 in	22UF07 22UF08	± 50 ± 50
1/4 in	0.285 in	1 in	0.08 in	22UF09	+ 50
	0.285 in 0.285 in	1 1/4 in	0.08 in 0.08 in	22UF10 22UF11	+ 50
	0.285 in	1 ½ IN	0.08 in	22UF11	I 50
	0.285 in	1 ¾ in 2 in	0.08 in 0.08 in	35YV18 22UF12	± 50 ± 50
	0.285 in 0.313 in	1 5/8 in	0.065 in	35YV23	± 50 ± 50
	0.313 in	1 ¾ in	0.065 in	35YV24	± 50
	0.344 in 0.348 in	5⁄8 in	0.063 in	22UF13 35YV21	± 50 ± 50
5∕16 in	0.348 in	7⁄8 in 1 1∕4 in	0.08 in 0.08 in	22UF14	‡ 50 ‡ 50
	0.348 in	1 ½ in	0.00 in	22UF15	± 50
	0.348 in 0.348 in	1 in	0.08 in	35YV22	± 50
	0.348 in	2 in	0.08 in	22UF16	± 50
	0.375 in 0.41 in	1 <sup>3</sup> / <sub>4</sub> in 1 <sup>1</sup> / <sub>4</sub> in	0.065 in	35YV27 22UF17	‡ 50 ‡ 50
	0.41 in	1 ½ in	0.08 in 0.08 in	22UF18	± 50
3∕8 in	0.41 in	1 5/8 in	0.08 in	22UF19	± 50
	0.41 in	2 In	0.08 in	22UF20	± 50
	0.41 in	3 in	0.08 in	35YV28	± 50 + 25
	0.5 in 0.5 in 0.535 in	1 ¼ in 2 ½ in	0.065 in 0.065 in	35YV29 35YV31	‡ <u>25</u> ‡ 25
47.	0.535 in	1 1/2 in	0.003 in	22UF21	± 25
1/2 in	0.535 in 0.535 in 0.535 in	1 3/4 in	0.08 in 0.08 in	35YV30 22UF22	‡ 25 ‡ 25
	0.535 in	2 IN	0.08 in	22UF22	‡ 25
Class	0.535 in I Steel, Bla	3 in	0.08 in	35YV32	‡ 25
½ in	0.531 in	1 1/8 in	0.125 in	22UF79	# 50
Class 8	3.8 Steel. B	lack Oxide			
#10 1/4 in	0.188 in 0.281 in	½ in % in	0.094 in 0.125 in	22UF74 22UF75	# 100 # 100
5/16 in	0.344 in	3/4 in	0.125 in	22UF76	# 100
3/8 in	0.406 in	7∕8 in	0 125 in	22UF77	# 50
7/16 in	0.469 in	1 in	0.125 in	22UF78	# 50 # 20
3/4 in 7/8 in	0.781 in 0.906 in	1 5/8 in 1 3/4 in	0.125 in 0.156 in	22UF81 22UF82	# 20 # 10
11/8 in	1.156 in	2 1/4 in	0.219 in	19NT68	# 5
11/4 in	1.281 in	2 ½ in	0.281 in	19NT69	# 5
1/4 in	0.9 Steel, 0.281 in	5/8 in	0.094 in	19NT70	# 100
5/16 in	0.344 in	11/16 in	0.094 in	19NT71	# 100
3/8 in	0.406 in	13/16 in	0.125 in	19NT72	# 100
7∕16 in 5⁄8 in	0.469 in 0.656 in	<sup>29</sup> / <sub>32</sub> in 1 5/ <sub>16</sub> in	0.125 in 0.219 in	19NT73 19NT75	# 50 # 25
3/4 in	0.781 in	1 15/32 in	0.219 in	22UH26	# 20
7∕8 in	0.938 in	1 ¾ in	0.219 in 0.25 in	19NT76	# 10
1 in	1.063 in	2 in 2 ½ in	0.25 in	22UH27	# 5
1½ in 1¼ in	1.188 in	2 ½ in 2 ½ in	0.25 in 0.25 in	22UH28 22UH29	# 5 # 5
1½ in	1.188 in 1.375 in 1.563 in	3 in	0.25 in	22UH31	# 5
Grade :	2 Steel, Bla	ck Oxide			
1/8 in	() 156 in	5⁄8 in 3∕4 in	0.065 in 0.065 in	35YU66 35YU67	‡ 100 ‡ 100
	0.156 in 0.188 in 0.188 in	½ in	0.005 III	35VII60	± 100 ± 100
	0.188 in	% IN	0.065 in 0.065 in	35YU70	± 100
3∕16 in	0.188 in	1 in	0.065 in	35YU71	‡ 100
	0.188 in 0.188 in	1 ½ in	0.065 in 0.065 in	35YU72 35YU73	± 100 ± 100
	0.100 III 0.281 in	1 ½ in % in	0.065 in	35YU74	‡ 100 ‡ 100
	0.281 in	1 in	0.065 in	35YU75	‡ 100
1/4 in	0.281 in	1 ½ in	0.065 in	35YU77	‡ 100
7 4 111	0.281 in 0.281 in	2 in 2 ½ in	0.065 in 0.065 in	35YU78 35YU79	‡ 100 ‡ 100
	0.281 in	3 in	0.065 in	35YU80	± 100 ± 100
	0.344 in	1 1/4 in	0.065 in	35YU81	‡ 100
E/ :-	0.344 in	1 ½ in	0.065 in	35YU82 35YU83	‡ 100
5∕16 in	0.344 in 0.344 in	1 5/8 in 2 in	0.065 in 0.065 in	35YU83 35YU84	‡ 100 ‡ 100
	0.344 in	3 in	0.065 in	35YU86	± 100 ± 100
	0.406 in	1 1/4 in	0.065 in	35YU87	‡ 100
36 in	0.406 in	1 ½ in	0.065 in	35YU88	± 100 ± 100
¾ in	0.406 in 0.406 in	1 5% in 2 in 3 in	0.065 in	35YU89 35YU90	‡ 100 ‡ 100
	() 4()6 in	3 in	0.065 in	35YU91	± 100
7∕16 in	0.5 in	1 1/4 in	0.065 in 0.065 in 0.065 in 0.083 in 0.065 in	22UE16	÷ 50
1/6 in	0.5 in 0.531 in 0.531 in	2 in	0.065 in 0.065 in	35YU92 35YU93	± 50 ± 50
½ in	0.563 in 0.625 in	1 3/8 in	0.109 in	22UE17	± 50 ± 50
9∕16 in	0.625 in	1 19/32 III	0.109 in	22UE17 25DK13	± 50 ± 25
5/8 in	0.688 in	1 ¾ in	0.134 in	22UE18	‡ 25 + 20
3/4 in 1 in	0.813 in 1.063 in	2 in 2 ½ in	0.148 in 0.165 in	25DK14 22UE19	± 20 ± 5
1½ in	1.625 in	3 ½ in	0.18 in	22UE20	‡ 5

Screw	Inside Diameter	Outside Diameter	Maximum Thickness	Item No.	Pkg Qty
<b>Frade 2</b> 1/4 in	2 Steel, Hot 0.313 in	47/64 in	0.065 in	25DK20	± 100
3/4 in	0.813 in	2 in	0.148 in	25DK25	‡ 20
1¼ in Grade :	1.375 in <b>2 Steel, Pla</b>	3 in	0.165 in	25DK27	‡ 5
1/4 in	0.281 in	1 1/4 in	0.065 in	35YU76	<b>‡</b> 100
Grade 2	2 Steel, Zin	c Plated %16 in	0.047 in	22UF24	# 100
#6 #8	0.156 in 0.188 in	3/4 in	0.051 in	6YY51	# 100 # 100
#10	0.188 in	11/16 in	() ()/I / in	22UF27	# 100
1/8 in	0.219 in 0.156 in 0.188 in	1 in ¾ in	0.125 in 0.065 in 0.065 in 0.065 in 0.065 in	22UF28 1VHF1	# 100 ‡ 100
5∕32 in	0.188 in	7⁄8 in	0.065 in	1VHF2	± 100
	0.188 in 0.219 in	1 ¼ in	0.065 in	53GK10 19NP76	‡ 100
3∕16 in	0.219 in 0.219 in	3/4 in 1 in	0.065 in 0.065 in	19NP/6 1VHF4	± 100 ± 100
7 10 111	0.219 in	1 ½ in	0.065 in 0.078 in	22UF31	± 100
	0.219 in	1 1/4 IN	0.078 in	4KHA5	# 100 # 150
	0.281 in 0.281 in	½ in %16 in	0.047 in 0.047 in	22UF32 22UF33	# 100 # 100
	0.281 in	⅓ in	0.065 in	22UF34	<b>‡</b> 100
	0.281 in	1 ½ in	0.125 in	22UF36	# 100
	0.281 in 0.281 in	1 ½ in 1 ¾ in	0.25 in 0.065 in	22UF37 35HV74	# 100 ‡ 100
	0.281 in	1 ½ in	0.078 in	4KHA8	# 800
1/4 in	0.281 in	1 in	0.051 in	5CUP3 5CUP4	# 3750 # 230
	0.281 in 0.281 in	1 ¼ in 1 in	0.051 in 0.065 in	6YY54	# 2300 ‡ 100
	0.281 in	1 1/4 in	0.065 in	6YY55	± 100
	0.281 in	1 ½ in	0.065 in	6YY56	<b>‡</b> 100
	0.281 in 0.281 in	2 in 2 ½ in	0.065 in 0.065 in	22UF38 22UF39	‡ 100 ‡ 100
	0.281 in 0.281 in	3 in	0.065 in	22UF40	<b>‡</b> 100
	0.313 in	47/64 in	0.065 in	25DK18	# 100 # 100
	0.344 in 0.344 in 0.344 in 0.344 in 0.344 in 0.344 in 0.344 in	5% in 7% in	0.047 in 0.047 in 0.065 in 0.065 in 0.065 in 0.065 in	22UF41 35HV75	# 100 ‡ 100
	0.344 in	1 5⁄8 in	0.065 in	1VHF6	‡ 100
	0.344 in	1 in 1 ¾ in	0.065 in	35HV76 35HV77	± 100 ± 100
	0.344 in	1 1/4 in	0.003 in	5CUP6	# 240
5∕16 in	0.344 in	1 ¼ in	0.065 in 0.065 in	6YY57	± 100
	0.344 in 0.344 in	1 ½ IN	0.065 in 0.065 in	6YY58 22UF42	‡ 100 ‡ 100
	0.344 in 0.344 in	2 ½ in	0.065 in	22UF46	+ 100
	0.344 in	2 in	0.125 in	22UF44	# 100
	0.344 in 0.344 in	2 in 3 in	0.25 in 0.065 in	22UF45 22UF47	# 100 ‡ 100
	0.406 in	1 5% in	0.065 in	22UF48	± 100 ± 100
	0.406 in	1 3/4 in	0.065 in	35HV78	‡ 100
	0.406 in 0.406 in	1 ½ in 1 ½ in	0.065 in 0.065 in	6YY59 6YY60	± 100 ± 100
3⁄8 in	0.406 in	2 in	0.125 in	22UF49	# 100
	0.406 in	2 in	0.25 in	22UF50	# 100
	0.406 in 0.406 in	2 in 3 in	0.065 in 0.065 in	6YY61 22UF51	‡ 100 ‡ 100
7∕16 in	0.5 in	1 ¼ in	0.083 in 0.065 in	22UE23	÷ 50
	0.5 in 0.531 in 0.531 in	1 ½ in	0.065 in	35HV79	¥ 50
	0.531 in		0.065 in 0.065 in	35HV80 6YY62	‡ 50 † 50
	0.531 in	1 ½ in 2 in	0.065 in 0.125 in	22UF52	‡ 50 # 50
½ in	0.531 in 0.531 in 0.531 in 0.531 in 0.531 in 0.531 in 0.563 in 0.563 in	2 in 2 ½ in	0.25 In	22UF53 35HV81	# 50
	0.531 in	2 /2 III	0.065 in 0.065 in	6YY63	‡ 50 ‡ 50
	0.531 in	3 in	0.065 in	22UF54	± 50
	0.563 in	1 % in 3 in	0.109 in 0.25 in	22UE24 22UF55	± 50 # 50
9⁄16 in	0.023 111	1 15/32 in	0.109 in	22UE25	± 25
	0.688 in	1 ¾ in	0.134 in	22UE26	
5∕8 in	0.688 in 0.688 in	2 ½ in 2 ½ in	0.125 in 0.25 in	22UF56 22UF57	# 25 # 25 # 25
	0.688 in	3 in	0.25 in	22UF58	# 25
	0.781 in	3 in	0.125 in	22UF59	# 20
3∕4 in	0.781 in 0.781 in	3 in	0.25 in 0.375 in	22UF60 22UF61	# 20 # 20
	0.761 iii	3 in 2 in	0.373 iii 0.148 in	25DK19	‡ 20
7/ .	0.938 in	2 1/4 in	0.165 in	22UE27	± 10
⅓ in	0.938 in 0.938 in	3 in 3 1/4 in	0.25 in 0.375 in	22UF62 22UF65	# 10 # 10
	1.063 in	2 ½ in	0.165 in	22UE28	‡ 5
1 in	1.063 in		0.25 in 0.375 in	2211E66	# 5
	1.063 in		0.375 in 0.25 in	22UF69 22UF68	# 5 # 5
1 1/8 in	1.25 in	2 ¾ in 3 in	0.165 in	22UE29 22UE30	# 5 ± 5
11/4 in	1.375 in	3 in	0.165 in 0.165 in	22UE30	‡ <u>5</u>
13/8 in	1.3/5 IN 1.5 in		0.5 IN 0.18 in	22UF70 22UF31	# 5 ‡ 5
1½ in	1.25 in 1.375 in 1.375 in 1.5 in 1.625 in	3 ½ in 3 ½ in	0.5 in 0.18 in 0.18 in	22UE31 22UE32	‡ 5
M4		12 mm	1 mm	6EY29	† 100
M5 M6	5.3 mm 6.4 mm	15 mm 18 mm	1.2 mm 1.6 mm	6EY31 6EY33	† 100 † 100
M8	8.4 mm	24 mm	2 mm	6EY35	† 100
M10	10.5 mm	20 mm	2 mm 2.5 mm	22UE73 22UE74	† 100
M12 M16	13 mm 17 mm	37 mm 50 mm	3 mm 3 mm	22UE74 6EY41	† 50 † 25
M20	22 mm	60 mm	4 mm	6EY43	† 10
	F044 + DI	N 0004 1	ASME B18.2		

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