

FENDER WASHERS

ZINC, HOT DIP GALVANIZED FINISH & STAINLESS STEEL

CERTIFICATION

TECHNICAL DATA



FOR INSTALL SUPPORT

sales@allfasteners.com



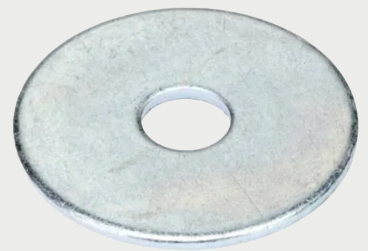
FOR SPECIFICATION SUPPORT

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FOR CUSTOMER SUPPORT

888.859.6060





FENDER WASHERS

ZINC, HOT DIP GALVANIZED & STAINLESS STEEL

Fender Washers are a flat washer with a larger outer diameter in proportion to its center hole. They are made from a thinner gauge metal than most flat washers and are designed to spread the load on thin sheet metal. Interestingly, they are named after their use on automobile fenders. Often used in sheet metal, plumbing, and electrical work.



ZINC



HOT DIP GALVANIZED



STAINLESS STEEL

KEY BENEFITS

- Large surface area
- Larger O.D. than USS & SAE washers

DIMENSIONAL DATA

TABLE 1: DIMENSIONAL DATA OF FENDER WASHERS

BOLT SIZE	INTERNAL DIAMETER I.D. (± 0.010)	OUTSIDE DIAMETER O.D. (± 0.010)	THICKNESS		APPROXIMATE NUMBER IN 50 POUNDS (STEEL)
			MIN	MAX	
10	7/32	11/16	0.080	0.051	9530*
10	7/32	3/4	0.080	0.051	8000
10	7/32	7/8	0.080	0.051	5000
10	7/32	1	0.080	0.051	3500
10	7/32	1-1/4	0.080	0.051	2145
10	7/32	1-1/2	0.080	0.051	1760*
10	7/32	2	0.080	0.051	796
1/4	9/32	1	0.080	0.051	3750
1/4	9/32	1-1/4	0.080	0.051	2300
1/4	9/32	1-1/2	0.080	0.051	1550
1/4	9/32	1-3/4	0.080	0.051	1100
1/4	9/32	2	0.080	0.051	810
5/16	11/32	1	0.080	0.051	4670*
5/16	11/32	1-1/4	0.080	0.051	2400
5/16	11/32	1-1/2	0.080	0.051	1600
5/16	11/32	2	0.080	0.051	820
5/16	11/32	2-1/2	0.080	0.051	500
3/8	13/32	1-1/4	0.080	0.051	2350
3/8	13/32	1-1/2	0.080	0.051	1650
3/8	13/32	1-3/4	0.080	0.051	1130
3/8	13/32	2	0.080	0.051	1000
3/8	13/32	2-1/2	0.080	0.051	512

* Represents a count based on stainless steel washers.



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DIMENSIONAL DATA

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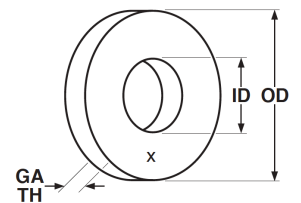
BOLT SIZE	INTERNAL DIAMETER I.D. (± 0.010)	OUTSIDE DIAMETER O.D. (± 0.010)	THICKNESS		APPROXIMATE NUMBER IN 50 POUNDS (STEEL)
			MIN	MAX	
1/2	17/32	1-1/4	0.080	0.051	3000
1/2	17/32	1-1/2	0.080	0.051	2000
1/2	17/32	1-3/4	0.080	0.051	1145
1/2	17/32	2	0.080	0.051	950
1/2	17/32	2-1/2	0.080	0.051	668
1/2	17/32	3	0.080	0.051	355
5/8	11/16	1-1/4	0.084	0.074	3590*
5/8	11/16	2	0.080	0.051	1015
5/8	11/16	3	0.080	0.051	365
3/4	13/16	2 (± 0.015)	0.080	0.051	1155*
7/8	15/16	2-1/2 (± 0.015)	0.118	0.101	715*

* Represents a count based on stainless steel washers.

MATERIAL SPECIFICATIONS

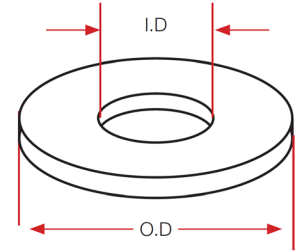
TABLE 2: MATERIAL SPECIFICATIONS OF FENDER WASHERS

MATERIAL	DESCRIPTION
	Steel Material - Washers shall be punched from hot-rolled and picked or cold-rolled steel, or shall be machined from bar stock or tubing, or may be forged at the manufacturer's option. Fender washers are usually provided zinc plated or hot dip galvanized.
	Stainless Material - 18-8 or 316 Stainless Steel. Parts are usually supplied with no additional finish.



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ORDERING INFORMATION

* Inside Diameter, ** Outside Diameter

TABLE 3: ORDERING INFORMATION FENDER WASHERS ZINC PLATED

PART NUMBER	SIZE (I.D. X O.D.)	FINISH	QTY/BOX
2FDW36100	3/16 x 1"	Zinc Plated	100
2FDW36114	3/16 x 1-1/4"	Zinc Plated	100
2FDW14100	1/4 x 1"	Zinc Plated	100
2FDW14114	1/4 x 1-1/4"	Zinc Plated	100
2FDW14112	1/4 x 1-1/2"	Zinc Plated	100
2FDW14200	1/4 x 2"	Zinc Plated	100
2FDW56114	5/16 x 1-1/4"	Zinc Plated	100
2FDW56112	5/16 x 1-1/2"	Zinc Plated	100
2FDW56200	5/16 x 2"	Zinc Plated	100
2FDW38114	3/8 x 1-1/4"	Zinc Plated	100
2FDW38112	3/8 x 1-1/2"	Zinc Plated	100
2FDW38200	3/8 x 2"	Zinc Plated	100
2FDW12114	1/2 x 1-1/4"	Zinc Plated	100
2FDW12112	1/2 x 1-1/2"	Zinc Plated	100
2FDW12200	1/2 x 2"	Zinc Plated	100

TABLE 4: ORDERING INFORMATION FENDER WASHERS HOT DIP GALVANIZED

PART NUMBER	SIZE (I.D. X O.D.)	FINISH	QTY/BOX
2FDW14114	1/4 x 1-1/4"	Hot Dip Galvanized	100
2FDW38114	3/8 x 1-1/4"	Hot Dip Galvanized	100
2FDW12114	1/2 x 1-1/4"	Hot Dip Galvanized	100
2FDW12112	1/2 x 1-1/2"	Hot Dip Galvanized	100

TABLE 5: ORDERING INFORMATION FENDER WASHERS 316 STAINLESS STEEL

PART NUMBER	SIZE (I.D. X O.D.)	FINISH	QTY/BOX
2FDWS414100	1/4 x 1"	316 Stainless Steel	100

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ORDERING INFORMATION**TABLE 6: ORDERING INFORMATION FENDER WASHERS 18-8 STAINLESS STEEL**

PART NUMBER	SIZE (I.D. X O.D.)	FINISH	QTY/BOX
2FDWS214100	1/4 x 1"	18-8 Stainless Steel	100
2FDWS214114	1/4 x 1-1/4"	18-8 Stainless Steel	100
2FDWS214112	1/4 x 1-1/2"	18-8 Stainless Steel	100
2FDWS238114	3/8 x 1-1/4"	18-8 Stainless Steel	100
2FDWS238112	3/8 x 1-1/2"	18-8 Stainless Steel	100
2FDWS212112	1/2 x 1-1/2"	18-8 Stainless Steel	100