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Round Unthreaded Spacers



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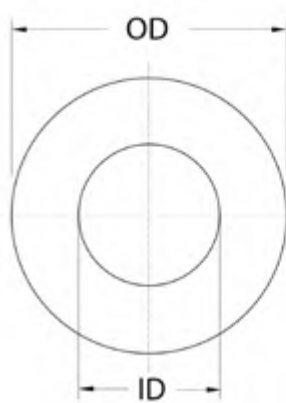
Round Unthreaded Spacers – Inch 18-8 SS, 316 SS, Aluminum, and Titanium Grade 2

Product Information

Spacers are also known as sleeves, bushings and clear-hole spacers. Spacers are unthreaded hollow tubes that are primarily used to maintain space between components in assemblies. They are also selected to provide heat or electrical isolation and to connect parts to each other. Spacers are used in many applications that include circuit board spacing, furniture fastening, signage mounting, and gear/bearing assembly.

Spacers are ordered by OD and by Length. OD tolerance is plus to minus .005. The ID tolerance is plus .01 to minus 0. The Length tolerance is plus to minus .005. They are available to fit standard screw and bolt sizes. These spacers have excellent corrosion resistance. Custom Made-To-Order Spacers are also available.

- AMPG products are made in the USA, precision machined from DFARS compliant material, and lot traceable.
- 18-8 stainless steel material meet ASTM A582.
- Type 316 Stainless Steel meets ASTM A276 and are passivated.
- Aluminum is 6061 -T6 and meets ASTM B211.
- Grade 2 Titanium material meets ASTM B348.
- 18-8 and 316 stainless steel, these spacers have good chemical resistance and maybe mildly magnetic.
- Aluminum spacers are lightweight, resist corrosion in wet environments and nonmagnetic.
- Titanium spacers have high strength-to-weight ratio, excellent corrosion resistance and nonmagnetic.



18-8 SS, 316 SS,
Alum, Ti2

Round Unthreaded Spacers – Inch



1/8 OD

Length	Screw Size	ID	18-8 SS Part Number	316 SS Part Number	Aluminum Part Number	Titanium Gr 2 Part Number
3/32	#0	.064	ZSU18093-064-188	–	ZSU18093-064-ALU	–
3/32	#2	.090	ZSU18093-090-188	–	ZSU18093-090-ALU	–
5/32	#0	.064	ZSU18156-064-188	–	ZSU18156-064-ALU	–
5/32	#2	.090	ZSU18156-090-188	–	ZSU18156-090-ALU	–
3/16	#0	.064	ZSU18187-064-188	–	–	–
3/16	#2	.090	ZSU18187-090-188	–	–	–
7/32	#0	.064	ZSU18218-064-188	–	ZSU18218-064-ALU	–
7/32	#2	.090	ZSU18218-090-188	–	ZSU18218-090-ALU	–
9/32	#0	.064	ZSU18281-064-188	–	ZSU18281-064-ALU	–
9/32	#2	.090	ZSU18281-090-188	–	ZSU18281-090-ALU	–
11/32	#0	.064	ZSU18342-064-188	–	ZSU18342-064-ALU	–
11/32	#2	.090	ZSU18342-090-188	–	ZSU18342-090-ALU	–
13/32	#0	.064	ZSU18406-064-188	–	ZSU18406-064-ALU	–
13/32	#2	.090	ZSU18406-090-188	–	ZSU18406-090-ALU	–
7/16	#0	.064	ZSU18437-064-188	–	ZSU18437-064-ALU	–
7/16	#2	.090	ZSU18437-090-188	–	ZSU18437-090-ALU	–
15/32	#0	.064	ZSU18468-064-188	–	ZSU18468-064-ALU	–
15/32	#2	.090	ZSU18468-090-188	–	ZSU18468-090-ALU	–
1/2	#0	.064	ZSU18500-064-188	–	–	–
1/2	#2	.090	ZSU18500-090-188	–	–	–
9/16	#0	.064	ZSU18562-064-188	–	ZSU18562-064-ALU	–
9/16	#2	.090	ZSU18562-090-188	–	ZSU18562-090-ALU	–
5/8	#0	.064	ZSU18625-064-188	–	ZSU18625-064-ALU	–
5/8	#2	.090	ZSU18625-090-188	–	ZSU18625-090-ALU	–
11/16	#0	.064	ZSU18687-064-188	–	ZSU18687-064-ALU	–
11/16	#2	.090	ZSU18687-090-188	–	ZSU18687-090-ALU	–
3/4	#0	.064	ZSU18750-064-188	–	ZSU18750-064-ALU	–
3/4	#2	.090	ZSU18750-090-188	–	ZSU18750-090-ALU	–
13/16	#0	.064	ZSU18812-064-188	–	ZSU18812-064-ALU	–
13/16	#2	.090	ZSU18812-090-188	–	ZSU18812-090-ALU	–
7/8	#0	.064	ZSU18875-064-188	–	ZSU18875-064-ALU	–
7/8	#2	.090	ZSU18875-090-188	–	ZSU18875-090-ALU	–
15/16	#0	.064	ZSU18937-064-188	–	ZSU18937-064-ALU	–
15/16	#2	.090	ZSU18937-090-188	–	ZSU18937-090-ALU	–
1	#0	.064	ZSU181-064-188	–	ZSU181-064-ALU	–
1	#2	.090	ZSU181-090-188	–	ZSU181-090-ALU	–

Round Unthreaded Spacers — Inch

18-8 SS, 316 SS, Aluminum, and Titanium Grade 2



3/16 OD

Length	Screw Size	ID	18-8 SS Part Number	316 SS Part Number	Aluminum Part Number	Titanium Gr2 Part Number
3/32	#2	.090	ZSU316093-090-188	—	ZSU316093-090-ALU	—
3/32	#4	.115	ZSU316096-115-188	—	ZSU316096-115-ALU	—
3/32	#6	.140	—	ZAS316094-140-316	—	—
1/8	#6	.140	—	ZAS316125-140-316	—	—
5/32	#6	.140	—	ZAS316156-140-316	—	—
3/16	#6	.140	—	ZAS316187-140-316	—	—
7/32	#6	.140	—	ZAS316218-140-316	—	—
1/4	#6	.140	—	ZAS316250-140-316	—	—
9/32	#6	.140	—	ZAS316281-140-316	—	—
5/16	#6	.140	—	ZAS316312-140-316	—	—
11/32	#6	.140	—	ZAS316343-140-316	—	—
3/8	#6	.140	—	ZAS316375-140-316	—	—
13/32	#6	.140	—	ZAS316406-140-316	—	—
7/16	#6	.140	—	ZAS316437-140-316	—	—
15/32	#6	.140	—	ZAS316468-140-316	—	—
1/2	#6	.140	—	ZAS316500-140-316	—	—
9/16	#6	.140	—	ZAS316562-140-316	—	—
5/8	#6	.140	—	ZAS316625-140-316	—	—
11/16	#6	.140	—	ZAS316687-140-316	—	—
3/4	#6	.140	—	ZAS316750-140-316	—	—
13/16	#2	.090	ZSU316812-090-188	—	ZSU316812-090-ALU	—
13/16	#4	.115	ZSU316812-115-188	—	ZSU316812-115-ALU	—
13/16	#6	.140	—	ZAS316812-140-316	—	—
7/8	#6	.140	—	ZAS316875-140-316	—	—
15/16	#2	.090	ZSU316937-090-188	—	ZSU316937-090-ALU	—
15/16	#4	.115	ZSU316937-115-188	—	ZSU316937-115-ALU	—
15/16	#6	.140	—	ZAS316937-140-316	—	—
1	#6	.140	—	ZAS316100-140-316	—	—

Round Unthreaded Spacers – Inch



1/4 OD

Length	Screw Size	ID	18-8 SS Part Number	316 SS Part Number	Aluminum Part Number	Titanium Gr 2 Part Number
1/16	#8	.166	—	ZAS14562-166-316	—	—
3/32	#4	.115	ZSU14093-115-188	—	ZSU14093-115-ALU	—
3/32	#6	.140	ZSU14093-140-188	—	ZSU14093-140-ALU	—
3/32	#8	.166	—	ZAS14625-140-316	—	—
1/8	#4	.115	ZSU14125-115-188	—	—	—
1/8	#6	.140	—	ZAS14094-140-316	—	—
1/8	#8	.166	—	ZAS14625-166-316	—	ZAS14125-166-Ti2
5/32	#6	.140	—	ZAS14094-166-316	—	—
5/32	#8	.166	—	ZAS14687-140-316	—	—
3/16	#6	.140	—	ZAS14125-140-316	—	—
3/16	#8	.166	—	ZAS14687-166-316	—	ZAS14187-166-Ti2
7/32	#6	.140	—	ZAS14125-166-316	—	—
7/32	#8	.166	—	ZAS14750-140-316	—	—
1/4	#6	.140	—	ZAS14156-140-316	—	—
1/4	#8	.166	—	ZAS14750-166-316	—	ZAS14250-166-Ti2
9/32	#6	.140	—	ZAS14156-166-316	—	—
9/32	#8	.166	—	ZAS14812-140-316	—	—
5/16	#6	.140	—	ZAS14187-140-316	—	—
5/16	#8	.166	—	ZAS14812-166-316	—	ZAS14312-166-Ti2
11/32	#6	.140	—	ZAS14187-166-316	—	—
11/32	#8	.166	—	ZAS14875-140-316	—	—
3/8	#6	.140	—	ZAS14218-140-316	—	—
3/8	#8	.166	—	ZAS14875-166-316	—	ZAS14375-166-Ti2
13/32	#6	.140	—	ZAS14218-166-316	—	—
13/32	#8	.166	—	ZAS14937-140-316	—	—
7/16	#6	.140	—	ZAS14250-140-316	—	—
7/16	#8	.166	—	ZAS14937-166-316	—	ZAS14437-166-Ti2
15/32	#6	.140	—	ZAS14250-166-316	—	—
15/32	#8	.166	—	ZAS14100-140-316	—	—
1/2	#6	.140	—	ZAS14281-140-316	—	—
1/2	#8	.166	—	ZAS14100-166-316	—	ZAS14500-166-Ti2
9/16	#6	.140	—	ZAS14281-166-316	—	—
9/16	#8	.166	—	ZAS141125-140-316	—	ZAS14562-166-Ti2
5/8	#6	.140	—	ZAS14312-140-316	—	—
5/8	#8	.166	—	ZAS141125-166-316	—	ZAS14625-166-Ti2
11/16	#6	.140	—	ZAS14312-166-316	—	—
11/16	#8	.166	—	ZAS141250-140-316	—	ZAS14687-166-Ti2
3/4	#6	.140	—	ZAS14343-140-316	—	—

Round Unthreaded Spacers — Inch



1/4 OD

Length	Screw Size	ID	18-8 SS Part Number	316 SS Part Number	Aluminum Part Number	Titanium Gr 2 Part Number
3/4	#8	.166	—	ZAS141250-166-316	—	ZAS14750-166-Ti2
13/16	#6	.140	—	ZAS14343-166-316	—	—
13/16	#8	.166	—	ZAS141375-140-316	—	ZAS14812-166-Ti2
7/8	#6	.140	—	ZAS14375-140-316	—	—
7/8	#8	.166	—	ZAS141375-166-316	—	ZAS14875-166-Ti2
15/16	#6	.140	—	ZAS14375-166-316	—	—
15/16	#8	.166	—	ZAS141500-140-316	—	ZAS14937-166-Ti2
1	#6	.140	—	ZAS14406-140-316	—	—
1	#8	.166	—	ZAS141500-166-316	—	ZAS14100-166-Ti2
1-1/8	#6	.140	—	ZAS14406-166-316	—	—
1-1/8	#8	.166	—	ZAS141625-140-316	—	ZAS141125-166-Ti2
1-1/4	#6	.140	—	ZAS14437-140-316	—	—
1-1/4	#8	.166	—	ZAS141625-166-316	—	ZAS141250-166-Ti2
1-3/8	#6	.140	—	ZAS14437-166-316	—	—
1-3/8	#8	.166	—	ZAS141750-140-316	—	ZAS141375-166-Ti2
1-1/2	#6	.140	—	ZAS14468-140-316	—	—
1-1/2	#8	.166	—	ZAS141750-166-316	—	ZAS141500-166-Ti2
1-5/8	#4	.115	ZSU141625-115-188	—	ZSU141625-115-ALU	—
1-5/8	#6	.140	ZSU141625-140-188	ZAS14468-166-316	ZSU141625-140-ALU	—
1-5/8	#8	.166	—	ZAS141875-140-316	—	ZAS141625-166-Ti2
1-3/4	#6	.140	—	ZAS14500-140-316	—	—
1-3/4	#8	.166	—	ZAS141875-166-316	—	ZAS141750-166-Ti2
1-7/8	#4	.115	ZSU141875-115-188	—	ZSU141875-115-ALU	—
1-7/8	#6	.140	ZSU141875-140-188	ZAS14500-166-316	ZSU141875-140-ALU	—
1-7/8	#8	.166	—	ZAS14200-140-316	—	ZAS141875-166-Ti2
2	#6	.140	—	ZAS14562-140-316	—	—
2	#8	.166	—	ZAS14200-166-316	—	ZAS142000-166-Ti2
2-1/4	#4	.115	ZSU14225-115-188	—	ZSU14225-115-ALU	—
2-1/4	#6	.140	ZSU14225-140-188	—	ZSU14225-140-ALU	—
2-1/2	#4	.115	ZSU14250-115-188	—	ZSU14250-115-ALU	—
2-1/2	#6	.140	ZSU14250-140-188	—	ZSU14250-140-ALU	—
2-3/4	#4	.115	ZSU14275-115-188	—	ZSU14275-115-ALU	—
2-3/4	#6	.140	ZSU14275-140-188	—	ZSU14275-140-ALU	—
3	#4	.115	ZSU14300-115-188	—	ZSU14300-115-ALU	—
3	#6	.140	ZSU14300-140-188	—	ZSU14300-140-ALU	—

Round Unthreaded Spacers – Inch



5/16 OD

Length	Screw Size	ID	18-8 SS Part Number	316 SS Part Number	Aluminum Part Number
3/32	#10	.192	ZSU516093-192-188	ZAS516093-192-316	ZSU516093-192-ALU
1/8	#10	.192	—	ZAS516125-192-316	—
5/32	#10	.192	—	ZAS516156-192-316	—
3/16	#10	.192	—	ZAS516187-192-316	—
7/32	#10	.192	—	ZAS516218-192-316	—
1/4	#10	.192	—	ZAS516250-192-316	—
9/32	#10	.192	—	ZAS516281-192-316	—
5/16	#10	.192	—	ZAS516312-192-316	—
11/32	#10	.192	—	ZAS516343-192-316	—
3/8	#10	.192	—	ZAS516375-192-316	—
13/32	#10	.192	—	ZAS516406-192-316	—
7/16	#10	.192	—	ZAS516437-192-316	—
15/32	#10	.192	—	ZAS516468-192-316	—
1/2	#10	.192	—	ZAS516500-192-316	—
9/16	#10	.192	—	ZAS516562-192-316	—
5/8	#10	.192	—	ZAS516625-192-316	—
11/16	#10	.192	—	ZAS516687-192-316	—
3/4	#10	.192	—	ZAS516750-192-316	—
13/16	#10	.192	—	ZAS516812-192-316	—
7/8	#10	.192	—	ZAS516875-192-316	—
15/16	#10	.192	—	ZAS516937-192-316	—
1	#10	.192	—	ZAS516100-192-316	—
1-1/8	#10	.192	—	ZAS5161125-192-316	—
1-1/4	#10	.192	—	ZAS5161250-192-316	—
1-3/8	#10	.192	—	ZAS5161375-192-316	—
1-1/2	#10	.192	—	ZAS5161500-192-316	—
1-5/8	#10	.192	ZSU5161625-192-188	ZAS5161625-192-316	ZSU5161625-192-ALU
1-3/4	#10	.192	—	ZAS5161750-192-316	—
1-7/8	#10	.192	ZSU5161875-192-188	ZAS5161875-192-316	ZSU5161875-192-ALU
2	#10	.192	—	ZAS516200-192-316	—
2-1/4	#10	.192	ZSU516225-192-188	—	ZSU516225-192-ALU
2-1/2	#10	.192	ZSU516250-192-188	—	ZSU516250-192-ALU
2-3/4	#10	.192	ZSU516275-192-188	—	ZSU516275-192-ALU
3	#10	.192	ZSU516300-192-188	—	ZSU516300-192-ALU

Round Unthreaded Spacers — Inch



3/8 OD

Length	Screw Size	ID	18-8 SS Part Number	316 SS Part Number	Aluminum Part Number
3/32	#10	.192	ZSU0.375093-192-188	—	ZSU0.375093-192-ALU
1/8	#10	.192	—	ZAS38093-192-316	—
1/8	1/4	.252	—	ZAS12125-252-316	—
5/32	#10	.192	—	ZAS38125-192-316	—
3/16	#10	.192	—	ZAS38125-252-316	—
3/16	1/4	.252	—	ZAS12187-252-316	—
7/32	#10	.192	—	ZAS38156-192-316	—
1/4	#10	.192	—	ZAS38187-192-316	—
1/4	1/4	.252	—	ZAS12250-252-316	—
9/32	#10	.192	—	ZAS38187-252-316	—
5/16	#10	.192	—	ZAS38218-192-316	—
5/16	1/4	.252	—	ZAS12312-252-316	—
11/32	#10	.192	—	ZAS38250-192-316	—
3/8	#10	.192	—	ZAS38250-252-316	—
3/8	1/4	.252	—	ZAS12375-252-316	—
13/32	#10	.192	—	ZAS38281-192-316	—
7/16	#10	.192	—	ZAS38312-192-316	—
7/16	1/4	.252	—	ZAS12437-252-316	—
15/32	#10	.192	—	ZAS38312-252-316	—
1/2	#10	.192	—	ZAS38343-192-316	—
1/2	1/4	.252	—	ZAS12500-252-316	—
9/16	#10	.192	—	ZAS38375-192-316	—
9/16	1/4	.252	—	ZAS12562-252-316	—
5/8	#10	.192	—	ZAS38375-252-316	—
5/8	1/4	.252	—	ZAS12625-252-316	—
11/16	#10	.192	—	ZAS38406-192-316	—
11/16	1/4	.252	—	ZAS12687-252-316	—
3/4	#10	.192	—	ZAS38437-192-316	—
3/4	1/4	.252	—	ZAS12750-252-316	—
13/16	#10	.192	—	ZAS38437-252-316	—
13/16	1/4	.252	—	ZAS12812-252-316	—
7/8	#10	.192	—	ZAS38468-192-316	—
7/8	1/4	.252	—	ZAS12875-252-316	—
15/16	#10	.192	—	ZAS38500-192-316	—
15/16	1/4	.252	—	ZAS12937-252-316	—
1	#10	.192	—	ZAS38500-252-316	—

Round Unthreaded Spacers – Inch



3/8 OD

Length	Screw Size	ID	18-8 SS Part Number	316 SS Part Number	Aluminum Part Number
1	1/4	.252	–	ZAS12100-252-316	–
1-1/8	#10	.192	–	ZAS38562-192-316	–
1-1/8	1/4	.252	–	ZAS121125-252-316	–
1-1/4	#10	.192	–	ZAS38562-252-316	–
1-1/4	1/4	.252	–	ZAS121250-252-316	–
1-3/8	#10	.192	–	ZAS38625-192-316	–
1-3/8	1/4	.252	–	ZAS121375-252-316	–
1-5/8	#10	.192	–	–	ZSU381625-192-ALU
1-7/8	#10	.192	–	–	ZSU381875-192-ALU
2-3/4	#10	.192	ZSU0.375275-192-188	–	–
3	#10	.192	ZSU0.375300-192-188	–	ZSU0.375300-192-ALU

1/2 OD

Length	Screw Size	ID	18-8 SS Part Number	316 SS Part Number	Aluminum Part Number	Titanium Part Number
1/16	1/4	.252	–	ZAS38812-192-316	–	–
1/8	1/4	.252	–	ZAS38812-252-316	–	ZAS14125-252-TI2
3/16	1/4	.252	ZSU0.5187-252-188	ZAS38875-192-316	–	ZAS14187-252-TI2
1/4	1/4	.252	–	ZAS38875-252-316	–	ZAS14250-252-TI2
5/16	1/4	.252	–	ZAS38937-192-316	–	ZAS14312-252-TI2
3/8	1/4	.252	–	ZAS38937-252-316	–	ZAS14375-252-TI2
7/16	1/4	.252	–	ZAS38100-192-316	–	ZAS14437-252-TI2
1/2	1/4	.252	–	ZAS38100-252-316	–	ZAS14500-252-TI2
9/16	1/4	.252	–	ZAS381125-192-316	–	ZAS14562-252-TI2
5/8	1/4	.252	–	ZAS381125-252-316	–	ZAS14625-252-TI2
11/16	1/4	.252	–	ZAS381250-192-316	–	ZAS14687-252-TI2
3/4	1/4	.252	–	ZAS381250-252-316	–	ZAS14750-252-TI2
13/16	1/4	.252	–	ZAS381375-192-316	–	ZAS14812-252-TI2
7/8	1/4	.252	–	ZAS381375-252-316	–	ZAS14875-252-TI2
15/16	1/4	.252	–	ZAS381500-192-316	–	ZAS14937-252-TI2
1	1/4	.252	–	ZAS381500-252-316	–	ZAS14100-252-TI2
1-1/8	1/4	.252	–	ZAS381625-192-316	–	ZAS141125-252-TI2
1-1/4	1/4	.252	–	ZAS381625-252-316	–	ZAS141250-252-TI2
1-3/8	1/4	.252	–	ZAS381750-192-316	–	ZAS141375-252-TI2
1-1/2	1/4	.252	–	ZAS381750-252-316	–	ZAS141500-252-TI2
1-5/8	1/4	.252	ZSU0.51625-252-188	ZAS381875-192-316	ZSU0.51625-252-ALU	ZAS141625-252-TI2
1-3/4	1/4	.252	–	ZAS381875-252-316	–	ZAS141750-252-TI2

Round Unthreaded Spacers — Inch



1/2 OD

Length	Screw Size	ID	18-8 SS Part Number	316 SS Part Number	Aluminum Part Number	Titanium Part Number
1-7/8	1/4	.252	ZSU0.51875-252-188	ZAS38200-192-316	ZSU0.51875-252-ALU	ZAS141875-252-TI2
2	1/4	.252	—	ZAS38200-252-316	—	ZAS142000-252-TI2
2-1/4	1/4	.252	—	ZAS382250-252-316	—	ZAS142250-252-TI2
2-1/2	1/4	.252	—	ZAS382500-252-316	—	ZAS142500-252-TI2
2-3/4	1/4	.252	ZSU0.52750-252-188	ZAS382750-252-316	ZSU0.52750-252-ALU	ZAS142750-252-TI2
3	1/4	.252	ZSU0.5300-252-188	ZAS38300-252-316	ZSU0.5300-252-ALU	ZAS143000-252-TI2
3-1/4	1/4	.252	ZSU0.5325-252-188	—	ZSU0.5325-252-ALU	—
3-1/2	1/4	.252	ZSU0.5350-252-188	—	ZSU0.5350-252-ALU	—
3-3/4	1/4	.252	ZSU0.5375-252-188	—	ZSU0.5375-252-ALU	—
4	1/4	.252	ZSU0.5400-252-188	—	ZSU0.5400-252-ALU	—
4-1/2	1/4	.252	ZSU0.5450-252-188	—	ZSU0.5450-252-ALU	—
5	1/4	.252	ZSU0.5500-252-188	—	ZSU0.5500-252-ALU	—
5-1/2	1/4	.252	ZSU0.5550-252-188	—	ZSU0.5550-252-ALU	—
6	1/4	.252	ZSU0.5600-252-188	—	ZSU0.5600-252-ALU	—

5/8 OD

Length	Screw Size	ID	18-8 SS Part Number	316 SS Part Number	Aluminum Part Number
1/8	1/4	.252	ZSU58125-252-188	—	—
3/16	1/4	.252	ZSU58187-252-188	—	ZSU58187-252-ALU
11/16	1/4	.252	ZSU58687-252-188	—	ZSU58687-252-ALU
13/16	1/4	.252	ZSU58812-252-188	—	ZSU58812-252-ALU
15/16	1/4	.252	ZSU58937-252-188	—	ZSU58937-252-ALU
1-5/8	1/4	.252	ZSU581625-252-188	—	ZSU581625-252-ALU
1-7/8	1/4	.252	ZSU581875-252-188	—	ZSU581875-252-ALU
2-3/4	1/4	.252	ZSU58275-252-188	—	ZSU58275-252-ALU
3	1/4	.252	ZSU58300-252-188	—	ZSU58300-252-ALU
3-1/4	1/4	.252	ZSU58325-252-188	—	ZSU58325-252-ALU
3-1/2	1/4	.252	ZSU58350-252-188	—	ZSU58350-252-ALU
3-3/4	1/4	.252	ZSU58375-252-188	—	ZSU58375-252-ALU
4	1/4	.252	ZSU58400-252-188	—	ZSU58400-252-ALU
4-1/2	1/4	.252	ZSU58450-252-188	—	ZSU58450-252-ALU
5	1/4	.252	ZSU58500-252-188	—	ZSU58500-252-ALU
5-1/2	1/4	.252	ZSU58550-252-188	—	ZSU58550-252-ALU
6	1/4	.252	ZSU58600-252-188	—	ZSU58600-252-ALU

Round Unthreaded Spacers – Inch 3/4 OD

Length	Screw Size	ID	18-8 SS Part Number	316 SS Part Number	Aluminum Part Number
1/8	5/16	.315	ZSU34125-315-188	ZAS34125-380-316	ZSU34125-315-ALU
3/16	5/16	.315	ZSU34187-315-188	ZAS34187-380-316	ZSU34187-315-ALU
1/4	5/16	.315	ZSU34250-315-188	ZAS34250-380-316	–
5/16	5/16	.315	ZSU34312-315-188	ZAS34312-380-316	–
3/8	3/8	.380	–	ZAS34375-380-316	–
7/16	5/16	.315	ZSU34437-315-188	ZAS34437-380-316	ZSU34437-315-ALU
1/2	3/8	.380	–	ZAS34500-380-316	–
9/16	5/16	.315	ZSU34562-315-188	–	ZSU34562-315-ALU
5/8	3/8	.380	–	ZAS34625-380-316	–
11/16	5/16	.315	ZSU34687-315-188	–	ZSU34687-315-ALU
3/4	3/8	.380	–	ZAS34750-380-316	–
13/16	5/16	.315	ZSU34812-315-188	–	ZSU34812-315-ALU
7/8	3/8	.380	–	ZAS34875-380-316	–
15/16	5/16	.315	ZSU34937-315-188	–	ZSU34937-315-ALU
1	3/8	.380	–	ZAS34100-380-316	–
1-1/8	5/16	.315	ZSU341125-315-188	–	ZSU341125-315-ALU
1-1/8	3/8	.380	–	ZAS341125-380-316	–
1-1/4	3/8	.380	–	ZAS341250-380-316	–
1-3/8	5/16	.315	ZSU341375-315-188	–	ZSU341375-315-ALU
1-3/8	3/8	.380	–	ZAS341375-380-316	–
1-1/2	3/8	.380	–	ZAS341500-380-316	–
1-5/8	5/16	.315	ZSU341625-315-188	–	ZSU341625-315-ALU
1-5/8	3/8	.380	–	ZAS341625-380-316	–
1-3/4	3/8	.380	–	ZAS341750-380-316	–
1-7/8	5/16	.315	ZSU341875-315-188	–	ZSU341875-315-ALU
1-7/8	3/8	.380	–	ZAS341875-380-316	–
2	3/8	.380	–	ZAS34200-380-316	–
2-1/4	3/8	.380	–	ZAS342250-380-316	–
2-1/2	3/8	.380	–	ZAS342500-380-316	ZSU342500-315-ALU
2-3/4	5/16	.315	ZSU34275-315-188	–	ZSU34275-315-ALU
2-3/4	3/8	.380	–	ZAS342750-380-316	–
3	5/16	.315	ZSU34300-315-188	–	ZSU34300-315-ALU
3	3/8	.380	–	ZAS34300-380-316	–
3-1/4	5/16	.315	ZSU34325-315-188	–	ZSU34325-315-ALU
3-1/2	5/16	.315	ZSU34350-315-188	–	ZSU34350-315-ALU
3-3/4	5/16	.315	ZSU34375-315-188	–	ZSU34375-315-ALU
4	5/16	.315	ZSU34400-315-188	–	ZSU34400-315-ALU
4-1/2	5/16	.315	ZSU34450-315-188	–	ZSU34450-315-ALU
5	5/16	.315	ZSU34500-315-188	–	ZSU34500-315-ALU
5-1/2	5/16	.315	ZSU34550-315-188	–	ZSU34550-315-ALU
6	5/16	.315	ZSU34600-315-188	–	ZSU34600-315-ALU

Round Unthreaded Spacers — Inch



1 OD

Length	Screw Size	ID	18-8 SS Part Number	316 SS Part Number	Aluminum Part Number
1/8	1/2	.505	ZSU100125-505-188	ZAS01125-505-316	ZSU100125-505-ALU
1/4	1/2	.505	ZSU100250-505-188	ZAS01250-505-316	—
3/8	1/2	.505	—	ZAS01375-505-316	—
1/2	1/2	.505	—	ZAS01500-505-316	—
5/8	1/2	.505	ZSU100625-505-188	ZAS01625-505-316	ZSU100625-505-ALU
3/4	1/2	.505	—	ZAS01750-505-316	—
7/8	1/2	.505	ZSU100875-505-188	ZAS01875-505-316	ZSU100875-505-ALU
1	1/2	.505	—	ZAS011-505-316	—
1-1/8	1/2	.505	ZSU1001125-505-188	ZAS011125-505-316	ZSU1001125-505-ALU
1-1/4	1/2	.505	ZSU1001250-505-188	ZAS011250-505-316	ZSU1001250-505-ALU
1-3/8	1/2	.505	ZSU1001375-505-188	ZAS011375-505-316	ZSU1001375-505-ALU
1-1/2	1/2	.505	—	ZAS011500-505-316	—
1-5/8	1/2	.505	ZSU1001625-505-188	ZAS011625-505-316	ZSU1001625-505-ALU
1-3/4	1/2	.505	ZSU100175-505-188	ZAS011750-505-316	ZSU100175-505-ALU
1-7/8	1/2	.505	ZSU1001875-505-188	ZAS011875-505-316	ZSU1001875-505-ALU
2	1/2	.505	—	ZAS01200-505-316	—
2-1/4	1/2	.505	ZSU100225-505-188	ZAS012250-505-316	ZSU100225-505-ALU
2-1/2	1/2	.505	ZSU100250-505-188	ZAS012500-505-316	ZSU100250-505-ALU
2-3/4	1/2	.505	ZSU100275-505-188	ZAS012750-505-316	ZSU100275-505-ALU
3	1/2	.505	ZSU100300-505-188	ZAS013000-505-316	ZSU100300-505-ALU
3-1/4	1/2	.505	ZSU100325-505-188	—	ZSU100325-505-ALU
3-1/2	1/2	.505	ZSU100350-505-188	—	ZSU100350-505-ALU
3-3/4	1/2	.505	ZSU100375-505-188	—	ZSU100375-505-ALU
4	1/2	.505	ZSU100400-505-188	—	ZSU100400-505-ALU
4-1/2	1/2	.505	ZSU100450-505-188	—	ZSU100450-505-ALU
5	1/2	.505	ZSU100500-505-188	—	ZSU100500-505-ALU
5-1/2	1/2	.505	ZSU100550-505-188	—	ZSU100550-505-ALU
6	1/2	.505	ZSU100600-505-188	—	ZSU100600-505-ALU

18-8 SS, 316 SS,
Aluminum

Round Unthreaded Spacers – Inch



1-1/2 OD

Length	Screw Size	ID	18-8 SS Part Number	316 SS Part Number	Aluminum Part Number
1/8	3/4	.750	ZSU112125-750-188	ZAS1.5125-750-316	ZSU112125-750-ALU
1/4	3/4	.750	ZSU112250-750-188	ZAS1.5250-750-316	ZSU112250-750-ALU
3/8	3/4	.750	–	ZAS1.5375-750-316	–
1/2	3/4	.750	–	ZAS1.5500-750-316	–
5/8	3/4	.750	ZSU112625-750-188	ZAS1.5625-750-316	ZSU112625-750-ALU
3/4	3/4	.750	–	ZAS1.5750-750-316	–
7/8	3/4	.750	ZSU112875-750-188	ZAS1.5875-750-316	ZSU112875-750-ALU
1	3/4	.750	–	ZAS1.5100-750-316	–
1-1/8	3/4	.750	ZSU1121125-750-188	ZAS1.51125-750-316	ZSU1121125-750-ALU
1-1/4	3/4	.750	ZSU1121250-750-188	ZAS1.51250-750-316	ZSU1121250-750-ALU
1-3/8	3/4	.750	ZSU1121375-750-188	ZAS1.51375-750-316	ZSU1121375-750-ALU
1-1/2	3/4	.750	–	ZAS1.51500-750-316	–
1-5/8	3/4	.750	ZSU1121625-750-188	ZAS1.51625-750-316	ZSU1121625-750-ALU
1-3/4	3/4	.750	ZSU1121750-750-188	ZAS1.51750-750-316	ZSU1121750-750-ALU
1-7/8	3/4	.750	ZSU1121875-750-188	ZAS1.51875-750-316	ZSU1121875-750-ALU
2	3/4	.750	–	ZAS1.5200-750-316	–
2-1/4	3/4	.750	ZSU1122250-750-188	ZAS1.52250-750-316	ZSU1122250-750-ALU
2-1/2	3/4	.750	ZSU1122500-750-188	ZAS1.52500-750-316	ZSU112250-750-ALU
2-3/4	3/4	.750	ZSU112275-750-188	ZAS1.52750-750-316	ZSU112275-750-ALU
3	3/4	.750	ZSU112300-750-188	ZAS1.5300-750-316	ZSU112300-750-ALU
3-1/4	3/4	.750	ZSU112325-750-188	–	ZSU112325-750-ALU
3-1/2	3/4	.750	ZSU112350-750-188	–	ZSU112350-750-ALU
3-3/4	3/4	.750	ZSU112375-750-188	–	ZSU112375-750-ALU
4	3/4	.750	ZSU112400-750-188	–	ZSU112400-750-ALU
4-1/2	3/4	.750	ZSU112450-750-188	–	ZSU112450-750-ALU
5	3/4	.750	ZSU112500-750-188	–	ZSU112500-750-ALU
5-1/2	3/4	.750	ZSU112550-750-188	–	ZSU112550-750-ALU
6	3/4	.750	ZSU112600-750-188	–	ZSU112600-750-ALU

Round Unthreaded Spacers — Inch



2 OD

Length	Screw Size	ID	18-8 SS Part Number	316 SS Part Number	Aluminum Part Number
1/8	1	1.000	—	ZAS2125-1.0-316	—
1/4	1	1.000	ZSU2250-1-188	ZAS2250-1.0-316	ZSU2250-1-ALU
3/8	1	1.000	—	ZAS2375-1.0-316	—
1/2	1	1.000	ZSU2500-1-188	ZAS2500-1.0-316	ZSU2500-1-ALU
5/8	1	1.000	—	ZAS2625-1.0-316	—
3/4	1	1.000	ZSU2750-1-188	ZAS2750-1.0-316	ZSU2750-1-ALU
7/8	1	1.000	—	ZAS2875-1.0-316	—
1	1	1.000	ZSU2100-1-188	ZAS2100-1.0-316	ZSU2100-1-ALU
1-1/8	1	1.000	—	ZAS21125-1.0-316	—
1-1/4	1	1.000	ZSU21125-1-188	ZAS21250-1.0-316	ZSU21125-1-ALU
1-3/8	1	1.000	—	ZAS21375-1.0-316	—
1-1/2	1	1.000	ZSU21500-1-188	ZAS21500-1.0-316	ZSU21500-1-ALU
1-5/8	1	1.000	—	ZAS21625-1.0-316	—
1-3/4	1	1.000	ZSU21750-1-188	ZAS21750-1.0-316	ZSU21750-1-ALU
1-7/8	1	1.000	—	ZAS21875-1.0-316	—
2	1	1.000	ZSU2200-1-188	ZAS2200-1.0-316	ZSU2200-1-ALU
2-1/4	1	1.000	ZSU2225-1-188	ZAS22250-1.0-316	ZSU2225-1-ALU
2-1/2	1	1.000	ZSU2250-1-188	ZAS22500-1.0-316	ZSU2250-1-ALU
2-3/4	1	1.000	ZSU2275-1-188	ZAS22750-1.0-316	ZSU2275-1-ALU
3	1	1.000	ZSU2300-1-188	ZAS2300-1.0-316	ZSU2300-1-ALU
3-1/4	1	1.000	ZSU2325-1-188	—	ZSU2325-1-ALU
3-1/2	1	1.000	ZSU2350-1-188	—	ZSU2350-1-ALU
3-3/4	1	1.000	ZSU2375-1-188	—	ZSU2375-1-ALU
4	1	1.000	ZSU2400-1-188	—	ZSU2400-1-ALU
4-1/2	1	1.000	ZSU2450-1-188	—	ZSU2450-1-ALU
5	1	1.000	ZSU2500-1-188	—	ZSU2500-1-ALU
5-1/2	1	1.000	ZSU2550-1-188	—	ZSU2550-1-ALU
6	1	1.000	ZSU2600-1-188	—	ZSU2600-1-ALU

Round Unthreaded Spacers – Inch



3 OD

Length	Screw Size	ID	316 SS Part Number
1/8	1	1.000	ZAS3125-1.0-316
1/4	1	1.000	ZAS3250-1.0-316
3/8	1	1.000	ZAS3375-1.0-316
1/2	1	1.000	ZAS3500-1.0-316
5/8	1	1.000	ZAS3625-1.0-316
3/4	1	1.000	ZAS3750-1.0-316
7/8	1	1.000	ZAS3875-1.0-316
1	1	1.000	ZAS3100-1.0-316
1-1/8	1	1.000	ZAS31125-1.0-316
1-1/4	1	1.000	ZAS31250-1.0-316
1-3/8	1	1.000	ZAS31375-1.0-316
1-1/2	1	1.000	ZAS31500-1.0-316
1-5/8	1	1.000	ZAS31625-1.0-316
1-3/4	1	1.000	ZAS31750-1.0-316
1-7/8	1	1.000	ZAS31875-1.0-316
2	1	1.000	ZAS3200-1.0-316
2-1/4	1	1.000	ZAS32250-1.0-316
2-1/2	1	1.000	ZAS32500-1.0-316
2-3/4	1	1.000	ZAS32750-1.0-316
3	1	1.000	ZAS3300-1.0-316

Round Unthreaded Spacers — Metric 18-8 (A2) SS, Aluminum

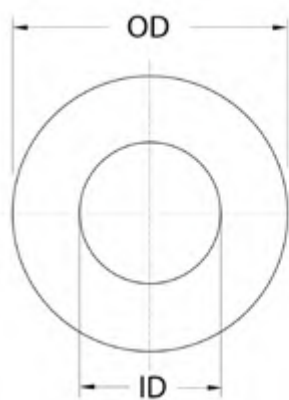


Product Information

Spacers are also known as sleeves, bushings and clear-hole spacers. Spacers are unthreaded hollow tubes that are primarily used to maintain space between components in assemblies. They are also selected to provide heat or electrical isolation and to connect parts to each other. Spacers are used in many applications that include circuit board spacing, furniture fastening, signage mounting, and gear/bearing assembly.

Spacers are ordered by OD and by Length. OD tolerance is plus to minus .13mm. The ID tolerance is plus .3mm to minus 0. The Length tolerance is plus to minus .13mm. They are available to fit standard screw and bolt sizes.

- AMPG products are made in the USA, precision machined from DFARS compliant material, and lot traceable.
- 18-8 Stainless Steel material meets ASTM A582.
- Made from stainless steel, these spacers have good chemical resistance and maybe mildly magnetic.
- Aluminum is 6061 -T6 and meets ASTM B211.
- Made from aluminum, these spacers are lightweight, resist corrosion in wet environments and nonmagnetic.



Round Unthreaded Spacers – Metric



4.5mm OD

Length	Screw Size	ID	18-8 SS Part Number	Aluminum Part Number
7mm	M3	3.20	ZSUM4.5X7-3-188	ZSUM4.5X7-3-ALU
9mm	M3	3.20	ZSUM4.5X9-3-188	ZSUM4.5X9-3-ALU
11mm	M3	3.20	ZSUM4.5X11-3-188	ZSUM4.5X11-3-ALU
12mm	M3	3.20	ZSUM4.5X12-3-188	ZSUM4.5X12-3-ALU
15mm	M3	3.20	ZSUM4.5X15-3-188	ZSUM4.5X15-3-ALU
17mm	M3	3.20	ZSUM4.5X17-3-188	ZSUM4.5X17-3-ALU
18mm	M3	3.20	ZSUM4.5X18-3-188	ZSUM4.5X18-3-ALU

6mm OD

Length	Screw Size	ID	18-8 SS Part Number	Aluminum Part Number
7mm	M3	4.20	ZSUM6X7-4-188	ZSUM6X7-3-ALU
9mm	M3	4.20	ZSUM6X9-4-188	ZSUM6X9-3-ALU
11mm	M3	4.20	ZSUM6X11-4-188	ZSUM6X11-3-ALU
12mm	M3	4.20	ZSUM6X12-4-188	ZSUM6X12-3-ALU
15mm	M3	4.20	ZSUM6X15-4-188	ZSUM6X15-3-ALU
17mm	M3	4.20	ZSUM6X17-4-188	ZSUM6X17-3-ALU
18mm	M3	4.20	ZSUM6X18-4-188	ZSUM6X18-3-ALU
22mm	M3	4.20	ZSUM6X22-4-188	ZSUM6X22-3-ALU
24mm	M3	4.20	ZSUM6X24-4-188	ZSUM6X24-3-ALU
26mm	M3	4.20	ZSUM6X26-4-188	ZSUM6X26-3-ALU
28mm	M3	4.20	ZSUM6X28-4-188	ZSUM6X28-3-ALU

8mm OD

Length	Screw Size	ID	18-8 SS Part Number	Aluminum Part Number
7mm	M5	5.30	ZSUM8X7-5-188	ZSUM8X7-5-ALU
9mm	M5	5.30	ZSUM8X9-5-188	ZSUM8X9-5-ALU
11mm	M5	5.30	ZSUM8X11-5-188	ZSUM8X11-5-ALU
12mm	M5	5.30	ZSUM8X12-5-188	ZSUM8X12-5-ALU
15mm	M5	5.30	ZSUM8X15-5-188	ZSUM8X15-5-ALU
17mm	M5	5.30	ZSUM8X17-5-188	ZSUM8X17-5-ALU
18mm	M5	5.30	ZSUM8X18-5-188	ZSUM8X18-5-ALU
22mm	M5	5.30	ZSUM8X22-5-188	ZSUM8X22-5-ALU
24mm	M5	5.30	ZSUM8X24-5-188	ZSUM8X24-5-ALU
26mm	M5	5.30	ZSUM8X26-5-188	ZSUM8X26-5-ALU
28mm	M5	5.30	ZSUM8X28-5-188	ZSUM8X28-5-ALU



10mm OD

Length	Screw Size	ID	18-8 SS Part Number	Aluminum Part Number
7mm	M5	5.30	ZSUM10X7-5-188	ZSUM10X7-5-ALU
9mm	M5	5.30	ZSUM10X9-5-188	ZSUM10X9-5-ALU
11mm	M5	5.30	ZSUM10X11-5-188	ZSUM10X11-5-ALU
12mm	M5	5.30	ZSUM10X12-5-188	ZSUM10X12-5-ALU
15mm	M5	5.30	ZSUM10X15-5-188	ZSUM10X15-5-ALU
17mm	M5	5.30	ZSUM10X17-5-188	ZSUM10X17-5-ALU
18mm	M5	5.30	ZSUM10X18-5-188	ZSUM10X18-5-ALU
22mm	M5	5.30	ZSUM10X22-5-188	ZSUM10X22-5-ALU
24mm	M5	5.30	ZSUM10X24-5-188	ZSUM10X24-5-ALU
26mm	M5	5.30	ZSUM10X26-5-188	ZSUM10X26-5-ALU
28mm	M5	5.30	ZSUM10X28-5-188	ZSUM10X28-5-ALU

13mm OD

Length	Screw Size	ID	18-8 SS Part Number	Aluminum Part Number
7mm	M6	6.30	ZSUM13X7-6-188	ZSUM13X7-6-ALU
9mm	M6	6.30	ZSUM13X9-6-188	ZSUM13X9-6-ALU
11mm	M6	6.30	ZSUM13X11-6-188	ZSUM13X11-6-ALU
12mm	M6	6.30	ZSUM13X12-6-188	ZSUM13X12-6-ALU
15mm	M6	6.30	ZSUM13X15-6-188	ZSUM13X15-6-ALU
17mm	M6	6.30	ZSUM13X17-6-188	ZSUM13X17-6-ALU
18mm	M6	6.30	ZSUM13X18-6-188	ZSUM13X18-6-ALU
22mm	M6	6.30	ZSUM13X22-6-188	ZSUM13X22-6-ALU
24mm	M6	6.30	ZSUM13X24-6-188	ZSUM13X24-6-ALU
26mm	M6	6.30	ZSUM13X26-6-188	ZSUM13X26-6-ALU
28mm	M6	6.30	ZSUM13X28-6-188	ZSUM13X28-6-ALU
50mm	M6	6.30	ZSUM13X50-6-188	ZSUM13X50-6-ALU

Round Unthreaded Spacers – Metric



16mm OD

Length	Screw Size	ID	18-8 SS Part Number	Aluminum Part Number
5mm	M10	10.00	ZSUM16X5-10-188	ZSUM16X5-10-ALU
6mm	M8	8.00	ZSUM16X6-8-188	–
10mm	M10	10.00	ZSUM16X10-10-188	ZSUM16X10-10-ALU
15mm	M10	10.00	ZSUM16X15-10-188	ZSUM16X15-10-ALU
20mm	M10	10.00	ZSUM16X20-10-188	ZSUM16X20-10-ALU
25mm	M8	8.00	ZSUM16X25-8-188	–
25mm	M10	10.00	ZSUM16X25-10-188	ZSUM16X25-10-ALU
30mm	M10	10.00	ZSUM16X30-10-188	ZSUM16X30-10-ALU
35mm	M10	10.00	ZSUM16X35-10-188	ZSUM16X35-10-ALU
40mm	M10	10.00	ZSUM16X40-10-188	ZSUM16X40-10-ALU
45mm	M10	10.00	ZSUM16X45-10-188	ZSUM16X45-10-ALU
50mm	M10	10.00	ZSUM16X50-10-188	ZSUM16X50-10-ALU
51mm	M10	10.00	ZSUM16X51-10-188	ZSUM16X51-10-ALU

19mm OD

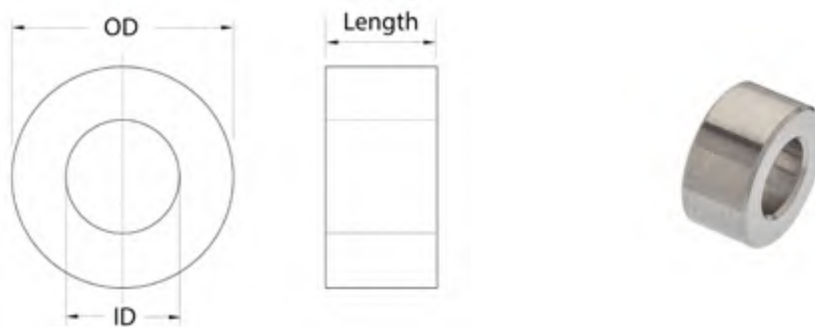
Length	Screw Size	ID	18-8 SS Part Number	Aluminum Part Number
5mm	M12	12.00	ZSUM19X5-12-188	ZSUM19X5-12-ALU
10mm	M12	12.00	ZSUM19X10-12-188	ZSUM19X10-12-ALU
15mm	M12	12.00	ZSUM19X15-12-188	ZSUM19X15-12-ALU
20mm	M12	12.00	ZSUM19X20-12-188	ZSUM19X20-12-ALU
25mm	M12	12.00	ZSUM19X25-12-188	ZSUM19X25-12-ALU
30mm	M12	12.00	ZSUM19X30-12-188	ZSUM19X30-12-ALU
35mm	M12	12.00	ZSUM19X35-12-188	ZSUM19X35-12-ALU
40mm	M12	12.00	ZSUM19X40-12-188	ZSUM19X40-12-ALU
45mm	M12	12.00	ZSUM19X45-12-188	ZSUM19X45-12-ALU
50mm	M12	12.00	ZSUM19X50-12-188	ZSUM19X50-12-ALU
51mm	M12	12.00	ZSUM19X51-12-188	ZSUM19X51-12-ALU

Made-To-Order Round Unthreaded Spacers – Inch

Product Information

Spacers are also known as sleeves, bushings and clear-hole spacers. Spacers are unthreaded hollow tubes that are primarily used to maintain space between components in assemblies. They are also selected to provide heat or electrical isolation and to connect parts to each other. Spacers are used in many applications that include circuit board spacing, furniture fastening, signage mounting, and gear/bearing assembly.

Spacers are ordered by OD and by Length. They are available to fit standard screw and bolt sizes.



How to Order

1. Choose material: Aluminum, Brass, Stainless, Steel.
2. Find the needed OD in your Material chart.
3. Specify OD, Length and ID in .001" increments. See Reference Table 1: Maximum Lengths by ID.

Minimum order quantity is 5 spacers.

Reference Table 1
Maximum Lengths by ID

For ID	Max. Spacer Lg.
.063 to .250	10x the ID
.251 to .500	9x the ID
.501 to .750	7x the ID
.751 and Up	5x the ID

Reference Table 2
IDs for Common Screw Sizes

For Screw Size	Use ID	For Screw Size	Use ID
No. 0	.064	1/4	.252
No. 2	.090	5/16	.315
No. 4	.115	3/8	.380
No. 6	.140	1/2	.505
No. 8	.166	5/8	.630
No. 10	.192	3/4	.800
No. 12	.218	1	1.005
		1-1/2	1.505

Unthreaded Round Spacers

Made-To-Order Round Unthreaded Spacers — Inch



Part Numbering System					
Material	Prefix	OD	Length	ID	Material Code
Aluminum	SPA	-XXX	-XXX	-XXX	-AL
Brass	SPA	-XXX	-XXX	-XXX	-BR
Stainless Steel	SPA	-XXX	-XXX	-XXX	-SS
Steel	SPA	-XXX	-XXX	-XXX	-ST

Example Part Number: SPA-390-625-250-ST

Labels for SPA-390-625-250-ST:
 SPA: Part # Prefix
 390: Spacer OD Code
 625: Length Code
 250: Spacer ID Code
 ST: Material Code

6061 Aluminum

OD	Length	ID Min.	ID Max.
.125 to .250	.125 to 2.000	.063	ID must be at least .050 less than OD
.251 to .500	.125 to 4.000	.125	ID must be at least .060 less than OD
.501 to 1.000	.125 to 5.000	.188	ID must be at least .120 less than OD
1.001 to 1.500	.125 to 3.000	.250	ID must be at least .160 less than OD
1.001 to 1.500	3.001 to 6.000	.250	ID must be at least .160 less than OD
1.501 to 2.000	.125 to 3.000	.375	ID must be at least .250 less than OD
1.501 to 2.000	3.001 to 6.000	.375	ID must be at least .250 less than OD
2.001 to 3.000	.125 to 3.000	.625	ID must be at least .375 less than OD
2.001 to 3.000	3.001 to 6.000	.625	ID must be at least .375 less than OD

Brass

OD	Length	ID Min.	ID Max.
.125 to .250	.125 to 2.000	.063	ID must be at least .050 less than OD
.251 to .500	.125 to 4.000	.125	ID must be at least .060 less than OD
.501 to 1.000	.125 to 5.000	.188	ID must be at least .120 less than OD
1.001 to 1.500	.125 to 3.000	.250	ID must be at least .160 less than OD
1.001 to 1.500	3.001 to 6.000	.250	ID must be at least .160 less than OD
1.501 to 2.000	.125 to 3.000	.375	ID must be at least .250 less than OD
1.501 to 2.000	3.001 to 6.000	.375	ID must be at least .250 less than OD
2.001 to 3.000	.125 to 3.000	.625	ID must be at least .375 less than OD
2.001 to 3.000	3.001 to 6.000	.625	ID must be at least .375 less than OD

Made-To-Order Round Unthreaded Spacers — Inch



Part Numbering System					
Material	Prefix	OD	Length	ID	Material Code
Aluminum	SPA	-XXX	-XXX	-XXX	-AL
Brass	SPA	-XXX	-XXX	-XXX	-BR
Stainless Steel	SPA	-XXX	-XXX	-XXX	-SS
Steel	SPA	-XXX	-XXX	-XXX	-ST

Example Part Number: **SPA**—**390**—**625**—**250**—**ST**

Labels for the example part number: SPA (Part # Prefix), 390 (Spacer OD Code), 625 (Length Code), 250 (Spacer ID Code), ST (Material Code)

18-8 Stainless Steel

OD	Length	ID Min.	ID Max.
.125 to .250	.125 to 2.000	.063	ID must be at least .050 less than OD
.251 to .500	.125 to 4.000	.125	ID must be at least .060 less than OD
.501 to 1.000	.125 to 5.000	.188	ID must be at least .120 less than OD
1.001 to 1.500	.125 to 3.000	.250	ID must be at least .160 less than OD
1.001 to 1.500	3.001 to 6.000	.250	ID must be at least .160 less than OD
1.501 to 2.000	.125 to 3.000	.375	ID must be at least .250 less than OD
1.501 to 2.000	3.001 to 6.000	.375	ID must be at least .250 less than OD
2.001 to 3.000	.125 to 3.000	.625	ID must be at least .375 less than OD
2.001 to 3.000	3.001 to 6.000	.625	ID must be at least .375 less than OD

12L14 Steel

OD	Length	ID Min.	ID Max.
.125 to 0.250	.125 to 2.000	.063	ID must be at least .050 less than OD
.251 to 0.500	.125 to 4.000	.125	ID must be at least .060 less than OD
.501 to 1.000	.125 to 5.000	.188	ID must be at least .120 less than OD
1.001 to 1.500	.125 to 3.000	.250	ID must be at least .160 less than OD
1.001 to 1.500	3.001 to 6.000	.250	ID must be at least .160 less than OD
1.501 to 2.000	.125 to 3.000	.375	ID must be at least .250 less than OD
1.501 to 2.000	3.001 to 6.000	.375	ID must be at least .250 less than OD
2.001 to 3.000	.125 to 3.000	.625	ID must be at least .375 less than OD
2.001 to 3.000	3.001 to 6.000	.625	ID must be at least .375 less than OD



Longevity

Since 1987, Accurate Manufactured Products Group (AMPG) has been a stocking manufacturer of precision components, hard-to-find fasteners and industrial products.



Strategic Location

AMPG's 163,000 square foot facility is located in the Heart of the Midwest which gives us access to high-quality machinists/employees as well as being strategically located for fast delivery.



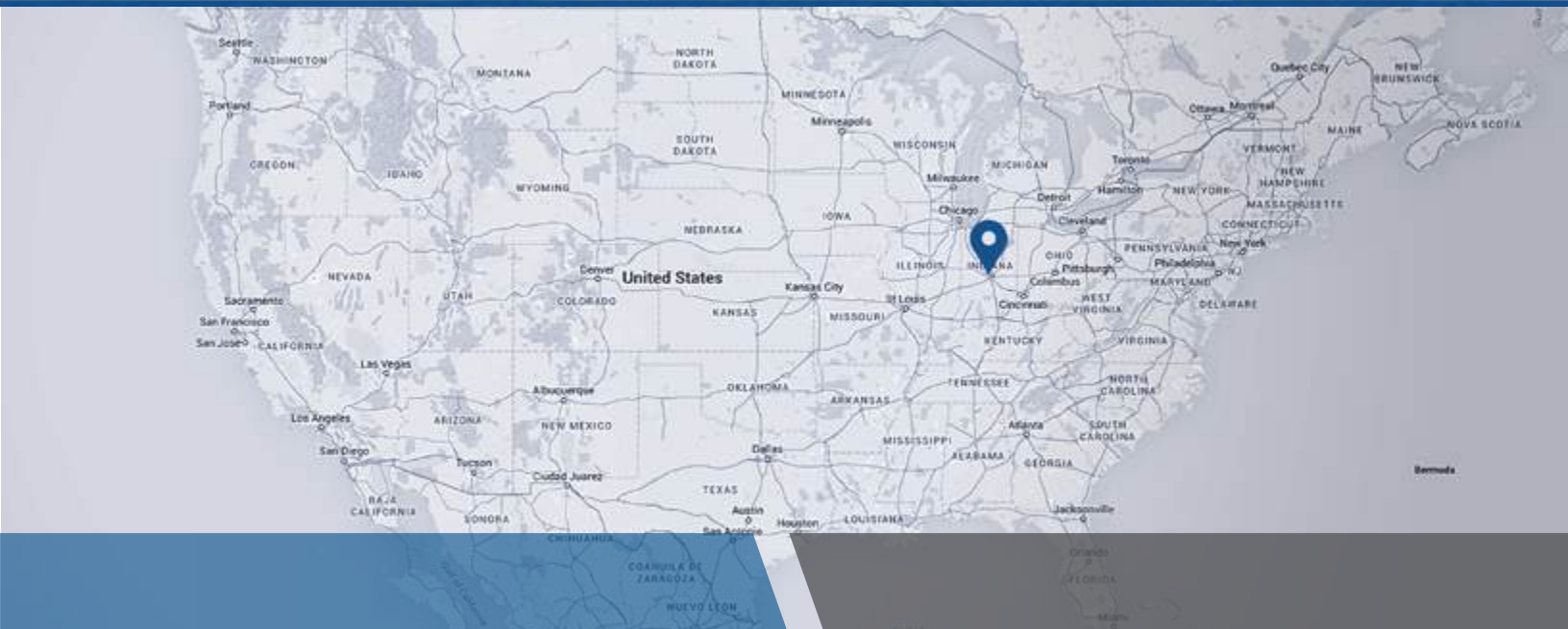
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Our manufacturing facility operates 24/7, producing precision parts on state-of-the-art CNC Swiss Lathes. Parts are made from high quality materials with a superior machined finish.



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