



AEGIS® Shaft Grounding Ring Parts List Catalog



Refer to the AEGIS® Shaft Grounding Ring
Motor Repair Handbook for Best Practices

www.est-aegis.com

AEGIS® Shaft Grounding Rings Provide Both Contact and NanoGap Grounding



AEGIS® Bearing Protection Ring uses Revolutionary Nanogap Technology

- Unique contact/non-contact design
- 360 degrees circumferential conductive micro fiber ring
- Multiple row design – greatest reliability
- Ensures unmatched shaft grounding and performance

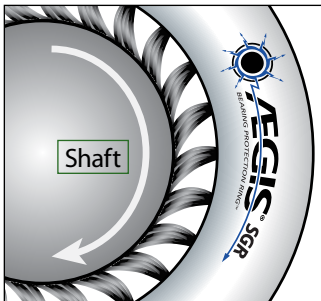


The AEGIS® Bearing Protection Ring's patented Nanogap Technology ensures effective electrical contact even when physical contact is broken. Only AEGIS® Nanogap Technology provides both maintenance-free contact and noncontact bearing protection for the normal service life of the motor's bearings as well as the most reliable operation of any shaft grounding technology.



Proprietary Conductive Microfibers Last for the Service Life of the Motor

The AEGIS® Bearing Protection Ring's unique design features hundreds of thousands to millions of specially engineered conductive microfibers that encircle the motor shaft. With so many electrical transfer points the ring provides continuous electrical contact, whether its fibers are physically touching the shaft or not. This patented "nanogap" technology enables both contact and noncontact shaft grounding — 100% of the time.

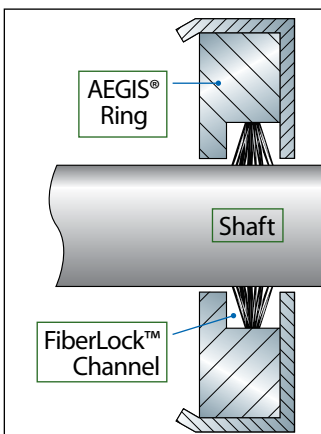


Specially Designed Microfibers Flex Without Breaking

Designed with specific mechanical and electrical characteristics that minimize wear and maintain conductivity, AEGIS® microfibers will last for the life of the motor. Based on wear of less than 0.001" (0.025mm) during 10,000 hours of testing, proven to withstand over 200,000 hours of continuous operation.

Through our patented design, AEGIS® conductive microfibers exhibit minimal wear and the ability to flex without breaking. In testing, they were proven to withstand 2 million direction reversals (to 1800 RPM) with no fiber fatigue or breakage.

AEGIS® Rings are designed with an optimal fiber overlap to the shaft of 0.030" (0.76mm).



Patented FiberLock™ Channel Secures and Protects Fibers

AEGIS's patented, protective FiberLock™ channel locks the ring's conductive microfibers securely in place around the motor shaft, allowing them to flex without breaking. The channel also helps protect the fibers from excessive dirt, oil, grease, and other contaminants.



AEGIS® SGR for Low Voltage and iPRO for Medium Voltage Motors

LOW VOLTAGE MOTORS

Supply voltage: 600 VAC or less

Recommended Technology: AEGIS® SGR

! Motors over 100 HP - recommend isolation of one bearing and AEGIS® SGR on the opposite bearing.



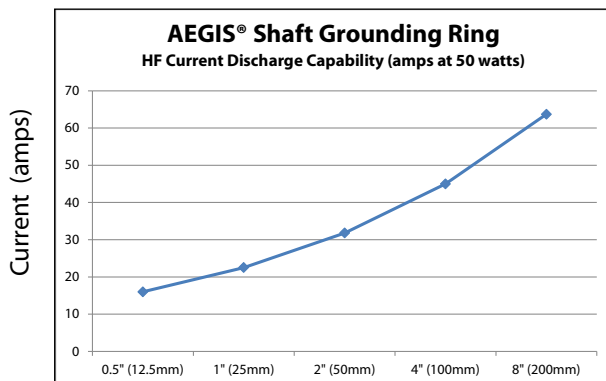
Description:

- Design Type: AEGIS® SGR
- Circumferential Conductive MicroFiber rows in FiberLock™ Channel
- Rows of fiber: 2
- Fiber overlaps shaft 0.030" (.76mm)
- OAL: 0.295" (7.5mm)
- OD: listed in AEGIS® Catalog

Mounting:

- Internal or External
- Select based on shaft diameter
- Split or Solid versions available
- Custom brackets optional

AEGIS® SGR Current Capability Chart



MEDIUM VOLTAGE MOTORS

Supply voltage: greater than 600 VAC

Recommended Technology: AEGIS® iPRO

! Recommend isolation of one bearing and AEGIS® iPRO on the opposite bearing.



6 rows of Conductive MicroFiber

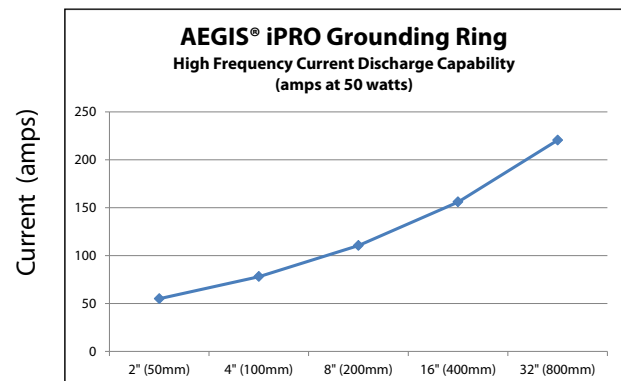
Description:

- Design Type: AEGIS® iPRO
- Circumferential Conductive MicroFiber rows in FiberLock™ Channel
- Rows of fiber: 6
- Fiber overlaps shaft 0.030" (.76mm)
- OAL: 0.625" (15.875mm)
- OD: Shaft + (refer to drawing)

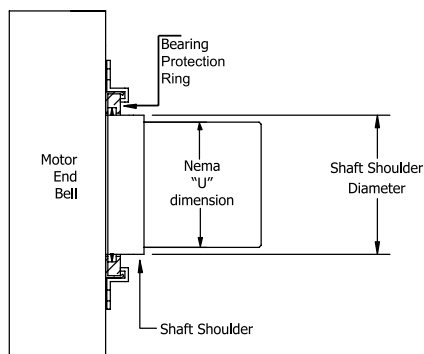
Mounting:

- Internal or External
- Select based on shaft diameter
- Split or Solid versions available
- Custom brackets optional

AEGIS® iPRO Current Capability Chart



Selecting The Right Size Bearing Protection Ring For Your Motor

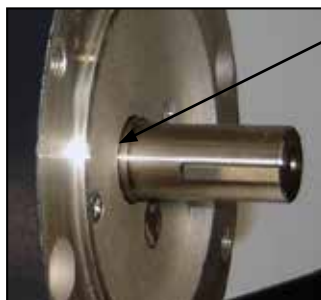


1. Measure shaft diameter at a point 0.125" from motor end bell.
2. Refer to the part lists to locate the correct SGR part number.

Note: If you have a slinger or a shaft shoulder that is less than 0.375", you will need the uKIT. See page 6-7 for more information.

Example shaft measurement 0.425"

Catalog Number	Min.shaft diameter	Max.shaft diameter	Outside diameter	Thickness Max
SGR-6.9-1	0.311	0.355	1.60	0.295
SGR-8.0-1	0.356	0.395	1.60	0.295
SGR-9.0-1	0.396	0.435	1.60	0.295
SGR-10.1-1	0.436	0.480	1.60	0.295
SGR-11.2-1	0.481	0.520	1.60	0.295



Shaft Shoulder: The standard SGR can be mounted to the shaft shoulder but the shoulder should be at least 0.375" in length so that all of the fibers are in contact with the rotating shaft. Measure the diameter of the shaft shoulder then locate the correct SGR on the part lists.

Custom Option for Short Shaft Shoulders: If the shaft shoulder is between .1875" and 0.375" we offer a custom part. For this option, we place the fibers closer to the back of the ring to allow for fiber contact on a shorter shoulder. To order this option, add an "X" or "AX" to the suffix of the part.

Example:	<u>Standard SGR</u>	<u>Short Shoulder SGR</u>
	PN: SGR-6.9-0A4W	PN: SGR-6.9-0A4WX
	PN: SGR-6.9-0AW	PN: SGR-6.9-0AWX
	PN: SGR-6.9-1	PN: SGR-6.9-1AX
	PN: SGR-6.9-1A4	PN: SGR-6.9-1A4X
	PN: SGR-6.9-3FH	PN: SGR-6.9-3FHAX

AC Induction Motors

VFD OPERATION			No VFD
Motors up to and including 100hp (Low Voltage)	Motors over 100hp to 500hp (Low Voltage-up to 600 volts AC)	Motors over 500hp (Medium Voltage-greater than 600 volts AC)	Motors over 500 Frame (Medium Voltage)
AEGIS® SGR	AEGIS® SGR	AEGIS® iPRO	AEGIS® iPRO (may not be needed)
n/a	Isolate one bearing, usually the NDE to break the circulating current path	Isolate one bearing, usually the NDE to break the circulating current path	Isolate one bearing, usually the NDE to break the circulating current path
Install AEGIS® SGR on DE or NDE	Install AEGIS® SGR opposite side of bearing insulation; usually DE	Install AEGIS® iPRO opposite side of bearing insulation; usually DE	Install AEGIS® iPRO opposite side of bearing insulation; usually DE





pg. 6-7

uKIT - SGR with Universal Mounting Bracket

Sized for NEMA and IEC Frame motors
Solid and Split Ring
Can be mounted with hardware or conductive epoxy



pg. 8-9

Conductive Epoxy Mounting (-0AW, -0A4W)

Shaft diameters: 0.311" to 6.02"
Solid and Split Ring
Quick and easy installation to metal motor frame
Conductive Epoxy Included



pg. 8-9

Standard Mounting Brackets (-1)

Shaft diameters: 0.311" to 6.02"
3 to 4 mounting brackets, 6-32 x 1/4" cap screws and washers
Quick and easy installation to most surfaces



pg. 8-9

Split Ring (-1A4)

Shaft diameter: 0.311" to 6.02"
4 to 6 mounting brackets, 6-32 x 1/4" cap screws and washers
Installs without decoupling motor



pg. 8-9

Bolt Through Mounting (-3FH)

Shaft diameters: 0.311" to 6.02"
6-32 x 1/2" flat head screws
2 mounting holes up to shaft size 3.895"
4 mounting holes for larger sizes



pg. 10

Press Fit Mounting (-0A6)

Shaft diameters: 0.311" to 6.02"
Clean dry 0.004" press fit
Custom sizes available



pg. 11

NEMA-IEC Mounting Kits

Shaft diameter: see chart for standard kits
Custom kits available for other shaft diameters
Clears any slinger, shaft shoulder or protrusion



pg. 12

Large SGR, iPRO, WTG

Large Rings over 6.02"
iPRO for Medium Voltage Motors
WTG for Wind Turbine Generators



pg. 13

Accessories

SVP - AEGIS® Shaft Voltage Probe
CS015 - AEGIS® Colloidal Silver Shaft Coating
EP2400 - AEGIS® Conductive Epoxy



AEGIS® uKIT with Universal Mounting for NEMA and IEC Motors

Solid and Split Ring Design

- **Kit is designed to avoid any slinger or shaft shoulder. Order based on NEMA and IEC Frame size.**
- **Install with 3 or 4 brackets depending on motor end bracket design.**
- **uKIT can be attached to motor with screws/washers provided or with conductive epoxy. AEGIS® EP2400 Conductive Epoxy sold separately.**
- **See AEGIS® website for bolt hole circle and installation.**



AEGIS® SGR uKit Includes:

- (1) AEGIS® SGR Bearing Protection Ring
- (4) universal brackets of each size - 16 total

Hardware for NEMA Motors also Include:

- (4) 5-40 x 3/8" flat head screws
- (4) 6-32 x 3/8" socket head cap screws
- (4) #6 split lock washers
- (4) #6 flat washers
- 5/64" allen wrench
- 7/64" allen wrench

Hardware for IEC Motors also Include:

- (4) 5-40 x 3/8" flat head screws
- (4) M4 x 10 socket head cap screws
- (4) M4 split lock washers
- (4) M4 flat washers
- 5/64" allen wrench
- 3mm allen wrench



Drill and tap hardware installation



AEGIS® EP2400 Conductive Epoxy installation



Solid Ring with 3 bracket installation



AEGIS® uKIT with Universal Mounting for NEMA and IEC Motors



NEMA uKIT Catalog Number Solid	NEMA uKIT Catalog Number Split	NEMA Motor shaft dia "u"	NEMA Frame
SGR-0.625-UKIT	SGR-0.625-UKIT-1A4	0.625"	56
SGR-0.875-UKIT	SGR-0.875-UKIT-1A4	0.875"	56HZ, 143T, 145T
SGR-1.125-UKIT	SGR-1.125-UKIT-1A4	1.125"	182T, 184T
SGR-1.375-UKIT	SGR-1.375-UKIT-1A4	1.375"	213T, 215T
SGR-1.625-UKIT	SGR-1.625-UKIT-1A4	1.625"	254T, 256T, 284TS, 286TS
SGR-1.875-UKIT	SGR-1.875-UKIT-1A4	1.875"	284T, 286T, 324TS, 326TS, 364TS, 365TS
SGR-2.125-UKIT	SGR-2.125-UKIT-1A4	2.125"	324T, 326T, 404TS, 405TS
SGR-2.375-UKIT	SGR-2.375-UKIT-1A4	2.375"	364T, 365T, 444TS, 445TS, 447TS, 449TS
SGR-2.875-UKIT	SGR-2.875-UKIT-1A4	2.875"	404T, 405T
SGR-3.375-UKIT	SGR-3.375-UKIT-1A4	3.375"	444T, 445T, 447T, 449T
SGR-3.625-UKIT	SGR-3.625-UKIT-1A4	3.625"	
SGR-3.875-UKIT	SGR-3.875-UKIT-1A4	3.875"	
SGR-4.375-UKIT	SGR-4.375-UKIT-1A4	4.375"	
SGR-4.875-UKIT	SGR-4.875-UKIT-1A4	4.875"	

IEC uKIT Catalog Number Solid	IEC uKIT Catalog Number Split	IEC Motor shaft dia "u"	IEC Frame
SGR-28-UKIT	SGR-28-UKIT-2A4	28mm	IEC 100L, 112M (2, 4, 6, 8 pole)
SGR-38-UKIT	SGR-38-UKIT-2A4	38mm	IEC 132S, 132M (2, 4, 6, 8 pole)
SGR-42-UKIT	SGR-42-UKIT-2A4	42mm	IEC 160M, 160L (2, 4, 6, 8 pole)
SGR-48-UKIT	SGR-48-UKIT-2A4	48mm	IEC 180M, 180L (2, 4, 6, 8 pole)
SGR-55-UKIT	SGR-55-UKIT-2A4	55mm	IEC 200L (2, 4, 6, 8 pole); IEC 225S, 225M (2 pole)
SGR-60-UKIT	SGR-60-UKIT-2A4	60mm	IEC 225S, 225M (4, 6, 8 pole) ; IEC 250M (2 pole)
SGR-65-UKIT	SGR-65-UKIT-2A4	65mm	IEC 250M (4, 6, 8 pole); IEC 280M, 280S, 315S, 315M, 315L (2 pole)
SGR-70-UKIT	SGR-70-UKIT-2A4	70mm	
SGR-75-UKIT	SGR-75-UKIT-2A4	75mm	IEC 280S, 280M (4, 6, 8 pole); IEC 355M, 355L (2 pole)
SGR-80-UKIT	SGR-80-UKIT-2A4	80mm	IEC 315S, 315M, 315L (4, 6, 8 pole)
SGR-85-UKIT	SGR-85-UKIT-2A4	85mm	
SGR-90-UKIT	SGR-90-UKIT-2A4	90mm	
SGR-95-UKIT	SGR-95-UKIT-2A4	95mm	IEC 335L, 335M, 355L, 355M (4, 6, 8, 10 pole)



Solid Ring, Split Ring, and Bolt Through Mounting

Dimensions in inches

Solid Ring with Conductive Epoxy	Split Ring* with Conductive Epoxy	Solid Ring Catalog Number	Split Ring* Catalog Number	Bolt Through* Catalog Number	Min. Shaft Diameter	Max. Shaft Diameter	Outside Diameter	Thickness Max
SGR-6.9-0AW	SGR-6.9-0A4W	SGR-6.9-1	SGR-6.9-1A4	SGR-6.9-3FH	0.311	0.355	1.60	0.295
SGR-8.0-0AW	SGR-8.0-0A4W	SGR-8.0-1	SGR-8.0-1A4	SGR-8.0-3FH	0.356	0.395	1.60	0.295
SGR-9.0-0AW	SGR-9.0-0A4W	SGR-9.0-1	SGR-9.0-1A4	SGR-9.0-3FH	0.396	0.435	1.60	0.295
SGR-10.1-0AW	SGR-10.1-0A4W	SGR-10.1-1	SGR-10.1-1A4	SGR-10.1-3FH	0.436	0.480	1.60	0.295
SGR-11.2-0AW	SGR-11.2-0A4W	SGR-11.2-1	SGR-11.2-1A4	SGR-11.2-3FH	0.481	0.520	1.60	0.295
SGR-12.2-0AW	SGR-12.2-0A4W	SGR-12.2-1	SGR-12.2-1A4	SGR-12.2-3FH	0.521	0.560	1.60	0.295
SGR-13.2-0AW	SGR-13.2-0A4W	SGR-13.2-1	SGR-13.2-1A4	SGR-13.2-3FH	0.561	0.605	1.60	0.295
SGR-14.4-0AW	SGR-14.4-0A4W	SGR-14.4-1	SGR-14.4-1A4	SGR-14.4-3FH	0.606	0.645	1.60	0.295
SGR-15.4-0AW	SGR-15.4-0A4W	SGR-15.4-1	SGR-15.4-1A4	SGR-15.4-3FH	0.646	0.685	2.10	0.295
SGR-16.4-0AW	SGR-16.4-0A4W	SGR-16.4-1	SGR-16.4-1A4	SGR-16.4-3FH	0.686	0.730	2.10	0.295
SGR-17.6-0AW	SGR-17.6-0A4W	SGR-17.6-1	SGR-17.6-1A4	SGR-17.6-3FH	0.731	0.774	2.10	0.295
SGR-18.7-0AW	SGR-18.7-0A4W	SGR-18.7-1	SGR-18.7-1A4	SGR-18.7-3FH	0.775	0.815	2.10	0.295
SGR-19.7-0AW	SGR-19.7-0A4W	SGR-19.7-1	SGR-19.7-1A4	SGR-19.7-3FH	0.816	0.855	2.10	0.295
SGR-20.7-0AW	SGR-20.7-0A4W	SGR-20.7-1	SGR-20.7-1A4	SGR-20.7-3FH	0.856	0.895	2.10	0.295
SGR-21.7-0AW	SGR-21.7-0A4W	SGR-21.7-1	SGR-21.7-1A4	SGR-21.7-3FH	0.896	0.935	2.10	0.295
SGR-22.8-0AW	SGR-22.8-0A4W	SGR-22.8-1	SGR-22.8-1A4	SGR-22.8-3FH	0.936	0.980	2.10	0.295
SGR-23.9-0AW	SGR-23.9-0A4W	SGR-23.9-1	SGR-23.9-1A4	SGR-23.9-3FH	0.981	1.020	2.10	0.295
SGR-24.9-0AW	SGR-24.9-0A4W	SGR-24.9-1	SGR-24.9-1A4	SGR-24.9-3FH	1.021	1.060	2.10	0.295
SGR-25.9-0AW	SGR-25.9-0A4W	SGR-25.9-1	SGR-25.9-1A4	SGR-25.9-3FH	1.061	1.105	2.10	0.295
SGR-27.1-0AW	SGR-27.1-0A4W	SGR-27.1-1	SGR-27.1-1A4	SGR-27.1-3FH	1.106	1.145	2.10	0.295
SGR-28.1-0AW	SGR-28.1-0A4W	SGR-28.1-1	SGR-28.1-1A4	SGR-28.1-3FH	1.146	1.185	2.10	0.295
SGR-29.1-0AW	SGR-29.1-0A4W	SGR-29.1-1	SGR-29.1-1A4	SGR-29.1-3FH	1.186	1.230	2.10	0.295
SGR-30.3-0AW	SGR-30.3-0A4W	SGR-30.3-1	SGR-30.3-1A4	SGR-30.3-3FH	1.231	1.270	2.10	0.295
SGR-31.3-0AW	SGR-31.3-0A4W	SGR-31.3-1	SGR-31.3-1A4	SGR-31.3-3FH	1.271	1.310	2.10	0.295
SGR-32.3-0AW	SGR-32.3-0A4W	SGR-32.3-1	SGR-32.3-1A4	SGR-32.3-3FH	1.311	1.355	2.10	0.295
SGR-33.4-0AW	SGR-33.4-0A4W	SGR-33.4-1	SGR-33.4-1A4	SGR-33.4-3FH	1.356	1.395	2.10	0.295
SGR-34.4-0AW	SGR-34.4-0A4W	SGR-34.4-1	SGR-34.4-1A4	SGR-34.4-3FH	1.396	1.435	2.68	0.295
SGR-35.5-0AW	SGR-35.5-0A4W	SGR-35.5-1	SGR-35.5-1A4	SGR-35.5-3FH	1.436	1.480	2.68	0.295
SGR-36.6-0AW	SGR-36.6-0A4W	SGR-36.6-1	SGR-36.6-1A4	SGR-36.6-3FH	1.481	1.520	2.68	0.295
SGR-37.6-0AW	SGR-37.6-0A4W	SGR-37.6-1	SGR-37.6-1A4	SGR-37.6-3FH	1.521	1.560	2.68	0.295
SGR-38.6-0AW	SGR-38.6-0A4W	SGR-38.6-1	SGR-38.6-1A4	SGR-38.6-3FH	1.561	1.605	2.68	0.295
SGR-39.8-0AW	SGR-39.8-0A4W	SGR-39.8-1	SGR-39.8-1A4	SGR-39.8-3FH	1.606	1.645	2.68	0.295
SGR-40.8-0AW	SGR-40.8-0A4W	SGR-40.8-1	SGR-40.8-1A4	SGR-40.8-3FH	1.646	1.685	2.68	0.295
SGR-41.8-0AW	SGR-41.8-0A4W	SGR-41.8-1	SGR-41.8-1A4	SGR-41.8-3FH	1.686	1.730	2.68	0.295
SGR-43.0-0AW	SGR-43.0-0A4W	SGR-43.0-1	SGR-43.0-1A4	SGR-43.0-3FH	1.731	1.770	2.68	0.295
SGR-44.0-0AW	SGR-44.0-0A4W	SGR-44.0-1	SGR-44.0-1A4	SGR-44.0-3FH	1.771	1.810	2.68	0.295
SGR-45.0-0AW	SGR-45.0-0A4W	SGR-45.0-1	SGR-45.0-1A4	SGR-45.0-3FH	1.811	1.855	2.68	0.295
SGR-46.1-0AW	SGR-46.1-0A4W	SGR-46.1-1	SGR-46.1-1A4	SGR-46.1-3FH	1.856	1.895	2.68	0.295
SGR-47.1-0AW	SGR-47.1-0A4W	SGR-47.1-1	SGR-47.1-1A4	SGR-47.1-3FH	1.896	1.935	2.68	0.295
SGR-48.2-0AW	SGR-48.2-0A4W	SGR-48.2-1	SGR-48.2-1A4	SGR-48.2-3FH	1.936	1.980	2.68	0.295
SGR-49.3-0AW	SGR-49.3-0A4W	SGR-49.3-1	SGR-49.3-1A4	SGR-49.3-3FH	1.981	2.020	2.68	0.295
SGR-50.3-0AW	SGR-50.3-0A4W	SGR-50.3-1	SGR-50.3-1A4	SGR-50.3-3FH	2.021	2.060	3.10	0.295
SGR-51.3-0AW	SGR-51.3-0A4W	SGR-51.3-1	SGR-51.3-1A4	SGR-51.3-3FH	2.061	2.105	3.10	0.295
SGR-52.5-0AW	SGR-52.5-0A4W	SGR-52.5-1	SGR-52.5-1A4	SGR-52.5-3FH	2.106	2.145	3.10	0.295
SGR-53.5-0AW	SGR-53.5-0A4W	SGR-53.5-1	SGR-53.5-1A4	SGR-53.5-3FH	2.146	2.185	3.10	0.295
SGR-54.5-0AW	SGR-54.5-0A4W	SGR-54.5-1	SGR-54.5-1A4	SGR-54.5-3FH	2.186	2.230	3.10	0.295
SGR-55.7-0AW	SGR-55.7-0A4W	SGR-55.7-1	SGR-55.7-1A4	SGR-55.7-3FH	2.231	2.270	3.10	0.295
SGR-56.7-0AW	SGR-56.7-0A4W	SGR-56.7-1	SGR-56.7-1A4	SGR-56.7-3FH	2.271	2.310	3.10	0.295
SGR-57.7-0AW	SGR-57.7-0A4W	SGR-57.7-1	SGR-57.7-1A4	SGR-57.7-3FH	2.311	2.355	3.10	0.295
SGR-58.8-0AW	SGR-58.8-0A4W	SGR-58.8-1	SGR-58.8-1A4	SGR-58.8-3FH	2.356	2.395	3.10	0.295
SGR-59.8-0AW	SGR-59.8-0A4W	SGR-59.8-1	SGR-59.8-1A4	SGR-59.8-3FH	2.396	2.435	3.60	0.295
SGR-60.9-0AW	SGR-60.9-0A4W	SGR-60.9-1	SGR-60.9-1A4	SGR-60.9-3FH	2.436	2.480	3.60	0.295
SGR-62.0-0AW	SGR-62.0-0A4W	SGR-62.0-1	SGR-62.0-1A4	SGR-62.0-3FH	2.481	2.520	3.60	0.295
SGR-63.0-0AW	SGR-63.0-0A4W	SGR-63.0-1	SGR-63.0-1A4	SGR-63.0-3FH	2.521	2.560	3.60	0.295
SGR-64.0-0AW	SGR-64.0-0A4W	SGR-64.0-1	SGR-64.0-1A4	SGR-64.0-3FH	2.561	2.605	3.60	0.295
SGR-65.2-0AW	SGR-65.2-0A4W	SGR-65.2-1	SGR-65.2-1A4	SGR-65.2-3FH	2.606	2.645	3.60	0.295
SGR-66.2-0AW	SGR-66.2-0A4W	SGR-66.2-1	SGR-66.2-1A4	SGR-66.2-3FH	2.646	2.685	3.60	0.295
SGR-67.2-0AW	SGR-67.2-0A4W	SGR-67.2-1	SGR-67.2-1A4	SGR-67.2-3FH	2.686	2.730	3.60	0.295
SGR-68.4-0AW	SGR-68.4-0A4W	SGR-68.4-1	SGR-68.4-1A4	SGR-68.4-3FH	2.731	2.770	3.60	0.295
SGR-69.4-0AW	SGR-69.4-0A4W	SGR-69.4-1	SGR-69.4-1A4	SGR-69.4-3FH	2.771	2.810	3.60	0.295
SGR-70.4-0AW	SGR-70.4-0A4W	SGR-70.4-1	SGR-70.4-1A4	SGR-70.4-3FH	2.811	2.855	3.60	0.295
SGR-71.5-0AW	SGR-71.5-0A4W	SGR-71.5-1	SGR-71.5-1A4	SGR-71.5-3FH	2.856	2.895	3.60	0.295
SGR-72.5-0AW	SGR-72.5-0A4W	SGR-72.5-1	SGR-72.5-1A4	SGR-72.5-3FH	2.896	2.935	4.10	0.295
SGR-73.6-0AW	SGR-73.6-0A4W	SGR-73.6-1	SGR-73.6-1A4	SGR-73.6-3FH	2.936	2.980	4.10	0.295
SGR-74.7-0AW	SGR-74.7-0A4W	SGR-74.7-1	SGR-74.7-1A4	SGR-74.7-3FH	2.981	3.020	4.10	0.295
SGR-75.7-0AW	SGR-75.7-0A4W	SGR-75.7-1	SGR-75.7-1A4	SGR-75.7-3FH	3.021	3.060	4.10	0.295
SGR-76.7-0AW	SGR-76.7-0A4W	SGR-76.7-1	SGR-76.7-1A4	SGR-76.7-3FH	3.061	3.105	4.10	0.295
SGR-77.9-0AW	SGR-77.9-0A4W	SGR-77.9-1	SGR-77.9-1A4	SGR-77.9-3FH	3.106	3.145	4.10	0.295
SGR-78.9-0AW	SGR-78.9-0A4W	SGR-78.9-1	SGR-78.9-1A4	SGR-78.9-3FH	3.146	3.185	4.10	0.295

*Custom Part-No Return

*Custom Part-No Return

*Custom Part-No Return



Solid Ring with Conductive Epoxy	Split Ring* with Conductive Epoxy	Solid Ring Catalog Number	Split Ring* Catalog Number	Bolt Through* Catalog Number	Min. Shaft Diameter	Max. Shaft Diameter	Outside Diameter	Thickness Max
SGR-79.9-0AW	SGR-79.9-0A4W	SGR-79.9-1	SGR-79.9-1A4	SGR-79.9-3FH	3.186	3.230	4.10	0.295
SGR-81.1-0AW	SGR-81.1-0A4W	SGR-81.1-1	SGR-81.1-1A4	SGR-81.1-3FH	3.231	3.270	4.10	0.295
SGR-82.1-0AW	SGR-82.1-0A4W	SGR-82.1-1	SGR-82.1-1A4	SGR-82.1-3FH	3.271	3.310	4.10	0.295
SGR-83.1-0AW	SGR-83.1-0A4W	SGR-83.1-1	SGR-83.1-1A4	SGR-83.1-3FH	3.311	3.355	4.10	0.295
SGR-84.2-0AW	SGR-84.2-0A4W	SGR-84.2-1	SGR-84.2-1A4	SGR-84.2-3FH	3.356	3.395	4.10	0.295
SGR-85.2-0AW	SGR-85.2-0A4W	SGR-85.2-1	SGR-85.2-1A4	SGR-85.2-3FH	3.396	3.435	4.60	0.295
SGR-86.3-0AW	SGR-86.3-0A4W	SGR-86.3-1	SGR-86.3-1A4	SGR-86.3-3FH	3.436	3.480	4.60	0.295
SGR-87.4-0AW	SGR-87.4-0A4W	SGR-87.4-1	SGR-87.4-1A4	SGR-87.4-3FH	3.481	3.520	4.60	0.295
SGR-88.4-0AW	SGR-88.4-0A4W	SGR-88.4-1	SGR-88.4-1A4	SGR-88.4-3FH	3.521	3.560	4.60	0.295
SGR-89.4-0AW	SGR-89.4-0A4W	SGR-89.4-1	SGR-89.4-1A4	SGR-89.4-3FH	3.561	3.605	4.60	0.295
SGR-90.6-0AW	SGR-90.6-0A4W	SGR-90.6-1	SGR-90.6-1A4	SGR-90.6-3FH	3.606	3.645	4.60	0.295
SGR-91.6-0AW	SGR-91.6-0A4W	SGR-91.6-1	SGR-91.6-1A4	SGR-91.6-3FH	3.646	3.685	4.60	0.295
SGR-92.6-0AW	SGR-92.6-0A4W	SGR-92.6-1	SGR-92.6-1A4	SGR-92.6-3FH	3.686	3.730	4.60	0.295
SGR-93.8-0AW	SGR-93.8-0A4W	SGR-93.8-1	SGR-93.8-1A4	SGR-93.8-3FH	3.731	3.770	4.60	0.295
SGR-94.8-0AW	SGR-94.8-0A4W	SGR-94.8-1	SGR-94.8-1A4	SGR-94.8-3FH	3.771	3.810	4.60	0.295
SGR-95.8-0AW	SGR-95.8-0A4W	SGR-95.8-1	SGR-95.8-1A4	SGR-95.8-3FH	3.811	3.855	4.60	0.295
SGR-96.9-0AW	SGR-96.9-0A4W	SGR-96.9-1	SGR-96.9-1A4	SGR-96.9-3FH	3.856	3.895	4.60	0.295
SGR-97.9-0AW	SGR-97.9-0A4W	SGR-97.9-1	SGR-97.9-1A4	SGR-97.9-3FH	3.896	3.935	5.10	0.295
SGR-99.0-0AW	SGR-99.0-0A4W	SGR-99.0-1	SGR-99.0-1A4	SGR-99.0-3FH	3.936	3.980	5.10	0.295
SGR-100.1-0AW	SGR-100.1-0A4W	SGR-100.1-1	SGR-100.1-1A4	SGR-100.1-3FH	3.981	4.020	5.10	0.295
SGR-101.1-0AW	SGR-101.1-0A4W	SGR-101.1-1	SGR-101.1-1A4	SGR-101.1-3FH	4.021	4.060	5.10	0.295
SGR-102.1-0AW	SGR-102.1-0A4W	SGR-102.1-1	SGR-102.1-1A4	SGR-102.1-3FH	4.061	4.105	5.10	0.295
SGR-103.3-0AW	SGR-103.3-0A4W	SGR-103.3-1	SGR-103.3-1A4	SGR-103.3-3FH	4.106	4.145	5.10	0.295
SGR-104.3-0AW	SGR-104.3-0A4W	SGR-104.3-1	SGR-104.3-1A4	SGR-104.3-3FH	4.146	4.185	5.10	0.295
SGR-105.3-0AW	SGR-105.3-0A4W	SGR-105.3-1	SGR-105.3-1A4	SGR-105.3-3FH	4.186	4.230	5.10	0.295
SGR-106.5-0AW	SGR-106.5-0A4W	SGR-106.5-1	SGR-106.5-1A4	SGR-106.5-3FH	4.231	4.270	5.10	0.295
SGR-107.5-0AW	SGR-107.5-0A4W	SGR-107.5-1	SGR-107.5-1A4	SGR-107.5-3FH	4.271	4.310	5.10	0.295
SGR-108.5-0AW	SGR-108.5-0A4W	SGR-108.5-1	SGR-108.5-1A4	SGR-108.5-3FH	4.311	4.355	5.10	0.295
SGR-109.6-0AW	SGR-109.6-0A4W	SGR-109.6-1	SGR-109.6-1A4	SGR-109.6-3FH	4.356	4.395	5.10	0.295
SGR-110.6-0AW	SGR-110.6-0A4W	SGR-110.6-1	SGR-110.6-1A4	SGR-110.6-3FH	4.396	4.435	5.60	0.295
SGR-111.7-0AW	SGR-111.7-0A4W	SGR-111.7-1	SGR-111.7-1A4	SGR-111.7-3FH	4.436	4.480	5.60	0.295
SGR-112.8-0AW	SGR-112.8-0A4W	SGR-112.8-1	SGR-112.8-1A4	SGR-112.8-3FH	4.481	4.520	5.60	0.295
SGR-113.8-0AW	SGR-113.8-0A4W	SGR-113.8-1	SGR-113.8-1A4	SGR-113.8-3FH	4.521	4.560	5.60	0.295
SGR-114.8-0AW	SGR-114.8-0A4W	SGR-114.8-1	SGR-114.8-1A4	SGR-114.8-3FH	4.561	4.605	5.60	0.295
SGR-116.0-0AW	SGR-116.0-0A4W	SGR-116.0-1	SGR-116.0-1A4	SGR-116.0-3FH	4.606	4.645	5.60	0.295
SGR-117.0-0AW	SGR-117.0-0A4W	SGR-117.0-1	SGR-117.0-1A4	SGR-117.0-3FH	4.646	4.685	5.60	0.295
SGR-118.0-0AW	SGR-118.0-0A4W	SGR-118.0-1	SGR-118.0-1A4	SGR-118.0-3FH	4.686	4.730	5.60	0.295
SGR-119.2-0AW	SGR-119.2-0A4W	SGR-119.2-1	SGR-119.2-1A4	SGR-119.2-3FH	4.731	4.770	5.60	0.295
SGR-120.2-0AW	SGR-120.2-0A4W	SGR-120.2-1	SGR-120.2-1A4	SGR-120.2-3FH	4.771	4.810	5.60	0.295
SGR-121.2-0AW	SGR-121.2-0A4W	SGR-121.2-1	SGR-121.2-1A4	SGR-121.2-3FH	4.811	4.855	5.60	0.295
SGR-122.3-0AW	SGR-122.3-0A4W	SGR-122.3-1	SGR-122.3-1A4	SGR-122.3-3FH	4.856	4.895	5.60	0.295
SGR-123.3-0AW	SGR-123.3-0A4W	SGR-123.3-1	SGR-123.3-1A4	SGR-123.3-3FH	4.896	4.935	6.10	0.295
SGR-124.4-0AW	SGR-124.4-0A4W	SGR-124.4-1	SGR-124.4-1A4	SGR-124.4-3FH	4.936	4.980	6.10	0.295
SGR-125.5-0AW	SGR-125.5-0A4W	SGR-125.5-1	SGR-125.5-1A4	SGR-125.5-3FH	4.981	5.020	6.10	0.295
SGR-126.5-0AW	SGR-126.5-0A4W	SGR-126.5-1	SGR-126.5-1A4	SGR-126.5-3FH	5.021	5.060	6.10	0.295
SGR-127.5-0AW	SGR-127.5-0A4W	SGR-127.5-1	SGR-127.5-1A4	SGR-127.5-3FH	5.061	5.105	6.10	0.295
SGR-128.7-0AW	SGR-128.7-0A4W	SGR-128.7-1	SGR-128.7-1A4	SGR-128.7-3FH	5.106	5.145	6.10	0.295
SGR-129.7-0AW	SGR-129.7-0A4W	SGR-129.7-1	SGR-129.7-1A4	SGR-129.7-3FH	5.146	5.185	6.10	0.295
SGR-130.7-0AW	SGR-130.7-0A4W	SGR-130.7-1	SGR-130.7-1A4	SGR-130.7-3FH	5.186	5.230	6.10	0.295
SGR-131.9-0AW	SGR-131.9-0A4W	SGR-131.9-1	SGR-131.9-1A4	SGR-131.9-3FH	5.231	5.270	6.10	0.295
SGR-132.9-0AW	SGR-132.9-0A4W	SGR-132.9-1	SGR-132.9-1A4	SGR-132.9-3FH	5.271	5.310	6.10	0.295
SGR-133.9-0AW	SGR-133.9-0A4W	SGR-133.9-1	SGR-133.9-1A4	SGR-133.9-3FH	5.311	5.355	6.10	0.295
SGR-135.0-0AW	SGR-135.0-0A4W	SGR-135.0-1	SGR-135.0-1A4	SGR-135.0-3FH	5.356	5.395	6.10	0.295
SGR-136.0-0AW	SGR-136.0-0A4W	SGR-136.0-1	SGR-136.0-1A4	SGR-136.0-3FH	5.396	5.435	6.60	0.295
SGR-137.1-0AW	SGR-137.1-0A4W	SGR-137.1-1	SGR-137.1-1A4	SGR-137.1-3FH	5.436	5.480	6.60	0.295
SGR-138.2-0AW	SGR-138.2-0A4W	SGR-138.2-1	SGR-138.2-1A4	SGR-138.2-3FH	5.481	5.520	6.60	0.295
SGR-139.2-0AW	SGR-139.2-0A4W	SGR-139.2-1	SGR-139.2-1A4	SGR-139.2-3FH	5.521	5.560	6.60	0.295
SGR-140.2-0AW	SGR-140.2-0A4W	SGR-140.2-1	SGR-140.2-1A4	SGR-140.2-3FH	5.561	5.605	6.60	0.295
SGR-141.4-0AW	SGR-141.4-0A4W	SGR-141.4-1	SGR-141.4-1A4	SGR-141.4-3FH	5.606	5.645	6.60	0.295
SGR-142.4-0AW	SGR-142.4-0A4W	SGR-142.4-1	SGR-142.4-1A4	SGR-142.4-3FH	5.646	5.685	6.60	0.295
SGR-143.4-0AW	SGR-143.4-0A4W	SGR-143.4-1	SGR-143.4-1A4	SGR-143.4-3FH	5.686	5.730	6.60	0.295
SGR-144.6-0AW	SGR-144.6-0A4W	SGR-144.6-1	SGR-144.6-1A4	SGR-144.6-3FH	5.731	5.770	6.60	0.295
SGR-145.6-0AW	SGR-145.6-0A4W	SGR-145.6-1	SGR-145.6-1A4	SGR-145.6-3FH	5.771	5.810	6.60	0.295
SGR-146.6-0AW	SGR-146.6-0A4W	SGR-146.6-1	SGR-146.6-1A4	SGR-146.6-3FH	5.811	5.855	6.60	0.295
SGR-147.7-0AW	SGR-147.7-0A4W	SGR-147.7-1	SGR-147.7-1A4	SGR-147.7-3FH	5.856	5.895	6.60	0.295
SGR-148.7-0AW	SGR-148.7-0A4W	SGR-148.7-1	SGR-148.7-1A4	SGR-148.7-3FH	5.896	5.935	7.10	0.295
SGR-149.8-0AW	SGR-149.8-0A4W	SGR-149.8-1	SGR-149.8-1A4	SGR-149.8-3FH	5.936	5.980	7.10	0.295
SGR-150.9-0AW	SGR-150.9-0A4W	SGR-150.9-1	SGR-150.9-1A4	SGR-150.9-3FH	5.981	6.020	7.10	0.295
*Custom Part-No Return		*Custom Part-No Return		*Custom Part-No Return				



AEGIS® SGR - Press Fit Mounting

Dimensions in inches

Catalog Number	Min.shaft diameter	Max.shaft diameter	SGR OD Tolerance +0/-0.001	Thickness Max	Bore Tolerance +0.001/-0
SGR-6.9-0A6	0.311	0.355	1.580	0.295	1.576
SGR- 8.0-0A6	0.356	0.395	1.580	0.295	1.576
SGR-9.0-0A6	0.396	0.435	1.580	0.295	1.576
SGR-10.1-0A6	0.436	0.480	1.580	0.295	1.576
SGR-11.2-0A6	0.481	0.520	1.580	0.295	1.576
SGR-12.2-0A6	0.521	0.560	1.580	0.295	1.576
SGR-13.2-0A6	0.561	0.605	1.580	0.295	1.576
SGR-14.4-0A6	0.606	0.645	1.580	0.295	1.576
SGR-15.4-0A6	0.646	0.685	2.080	0.295	2.076
SGR-16.4-0A6	0.686	0.730	2.080	0.295	2.076
SGR-17.6-0A6	0.731	0.774	2.080	0.295	2.076
SGR-18.7-0A6	0.775	0.815	2.080	0.295	2.076
SGR-19.7-0A6	0.816	0.855	2.080	0.295	2.076
SGR-20.7-0A6	0.856	0.895	2.080	0.295	2.076
SGR-21.7-0A6	0.896	0.935	2.080	0.295	2.076
SGR-22.8-0A6	0.936	0.980	2.080	0.295	2.076
SGR-23.9-0A6	0.981	1.020	2.080	0.295	2.076
SGR-24.9-0A6	1.021	1.060	2.080	0.295	2.076
SGR-25.9-0A6	1.061	1.105	2.080	0.295	2.076
SGR-27.1-0A6	1.106	1.145	2.080	0.295	2.076
SGR-28.1-0A6	1.146	1.185	2.080	0.295	2.076
SGR-29.1-0A6	1.186	1.230	2.080	0.295	2.076
SGR-30.3-0A6	1.231	1.270	2.080	0.295	2.076
SGR-31.3-0A6	1.271	1.310	2.080	0.295	2.076
SGR-32.3-0A6	1.311	1.355	2.080	0.295	2.076
SGR-33.4-0A6	1.356	1.395	2.080	0.295	2.076
SGR-34.4-0A6	1.396	1.435	2.660	0.295	2.656
SGR-35.5-0A6	1.436	1.480	2.660	0.295	2.656
SGR-36.6-0A6	1.481	1.520	2.660	0.295	2.656
SGR-37.6-0A6	1.521	1.560	2.660	0.295	2.656
SGR-38.6-0A6	1.561	1.605	2.660	0.295	2.656
SGR-39.8-0A6	1.606	1.645	2.660	0.295	2.656
SGR-40.8-0A6	1.646	1.685	2.660	0.295	2.656
SGR-41.8-0A6	1.686	1.730	2.660	0.295	2.656
SGR-43.0-0A6	1.731	1.770	2.660	0.295	2.656
SGR-44.0-0A6	1.771	1.810	2.660	0.295	2.656
SGR-45.0-0A6	1.811	1.855	2.660	0.295	2.656
SGR-46.1-0A6	1.856	1.895	2.660	0.295	2.656
SGR-47.1-0A6	1.896	1.935	2.660	0.295	2.656
SGR-48.2-0A6	1.936	1.980	2.660	0.295	2.656
SGR-49.3-0A6	1.981	2.020	2.660	0.295	2.656
SGR-50.3-0A6	2.021	2.060	3.080	0.295	3.076
SGR-51.3-0A6	2.061	2.105	3.080	0.295	3.076
SGR-52.5-0A6	2.106	2.145	3.080	0.295	3.076
SGR-53.5-0A6	2.146	2.185	3.080	0.295	3.076
SGR-54.5-0A6	2.186	2.230	3.080	0.295	3.076
SGR-55.7-0A6	2.231	2.270	3.080	0.295	3.076
SGR-56.7-0A6	2.271	2.310	3.080	0.295	3.076
SGR-57.7-0A6	2.311	2.355	3.080	0.295	3.076
SGR-58.8-0A6	2.356	2.395	3.080	0.295	3.076
SGR-59.8-0A6	2.396	2.435	3.580	0.295	3.576
SGR-60.9-0A6	2.436	2.480	3.580	0.295	3.576
SGR-62.0-0A6	2.481	2.520	3.580	0.295	3.576
SGR-63.0-0A6	2.521	2.560	3.580	0.295	3.576
SGR-64.0-0A6	2.561	2.605	3.580	0.295	3.576
SGR-65.2-0A6	2.606	2.645	3.580	0.295	3.576
SGR-66.2-0A6	2.646	2.685	3.580	0.295	3.576
SGR-67.2-0A6	2.686	2.730	3.580	0.295	3.576
SGR-68.4-0A6	2.731	2.770	3.580	0.295	3.576
SGR-69.4-0A6	2.771	2.810	3.580	0.295	3.576
SGR-70.4-0A6	2.811	2.855	3.580	0.295	3.576
SGR-71.5-0A6	2.856	2.895	3.580	0.295	3.576
SGR-72.5-0A6	2.896	2.935	4.080	0.295	4.076
SGR-73.6-0A6	2.936	2.980	4.080	0.295	4.076
SGR-74.7-0A6	2.981	3.020	4.080	0.295	4.076
SGR-75.7-0A6	3.021	3.060	4.080	0.295	4.076
SGR-76.7-0A6	3.061	3.105	4.080	0.295	4.076
SGR-77.9-0A6	3.106	3.145	4.080	0.295	4.076
SGR-78.9-0A6	3.146	3.185	4.080	0.295	4.076

Custom Part-No Return

Catalog Number	Min.shaft diameter	Max.shaft diameter	SGR OD Tolerance +0/-0.001	Thickness Max	Bore Tolerance +0.001/-0
SGR-79.9-0A6	3.186	3.230	4.080	0.295	4.076
SGR-81.1-0A6	3.231	3.270	4.080	0.295	4.076
SGR-82.1-0A6	3.271	3.310	4.080	0.295	4.076
SGR-83.1-0A6	3.311	3.355	4.080	0.295	4.076
SGR-84.2-0A6	3.356	3.395	4.080	0.295	4.076
SGR-85.2-0A6	3.396	3.435	4.580	0.295	4.576
SGR-86.3-0A6	3.436	3.480	4.580	0.295	4.576
SGR-87.4-0A6	3.481	3.520	4.580	0.295	4.576
SGR-88.4-0A6	3.521	3.560	4.580	0.295	4.576
SGR-89.4-0A6	3.561	3.605	4.580	0.295	4.576
SGR-90.6-0A6	3.606	3.645	4.580	0.295	4.576
SGR-91.6-0A6	3.646	3.685	4.580	0.295	4.576
SGR-92.6-0A6	3.686	3.730	4.580	0.295	4.576
SGR-93.8-0A6	3.731	3.770	4.580	0.295	4.576
SGR-94.8-0A6	3.771	3.810	4.580	0.295	4.576
SGR-95.8-0A6	3.811	3.855	4.580	0.295	4.576
SGR-96.9-0A6	3.856	3.895	4.580	0.295	4.576
SGR-97.9-0A6	3.896	3.935	5.080	0.295	5.076
SGR-99.0-0A6	3.936	3.980	5.080	0.295	5.076
SGR-100.1-0A6	3.981	4.020	5.080	0.295	5.076
SGR-101.1-0A6	4.021	4.060	5.080	0.295	5.076
SGR-102.1-0A6	4.061	4.105	5.080	0.295	5.076
SGR-103.3-0A6	4.106	4.145	5.080	0.295	5.076
SGR-104.3-0A6	4.146	4.185	5.080	0.295	5.076
SGR-105.3-0A6	4.186	4.230	5.080	0.295	5.076
SGR-106.5-0A6	4.231	4.270	5.080	0.295	5.076
SGR-107.5-0A6	4.271	4.310	5.080	0.295	5.076
SGR-108.5-0A6	4.311	4.355	5.080	0.295	5.076
SGR-109.6-0A6	4.356	4.395	5.080	0.295	5.076
SGR-110.6-0A6	4.396	4.435	5.580	0.295	5.576
SGR-111.7-0A6	4.436	4.480	5.580	0.295	5.576
SGR-112.8-0A6	4.481	4.520	5.580	0.295	5.576
SGR-113.8-0A6	4.521	4.560	5.580	0.295	5.576
SGR-114.8-0A6	4.561	4.605	5.580	0.295	5.576
SGR-116.0-0A6	4.606	4.645	5.580	0.295	5.576
SGR-117.0-0A6	4.646	4.685	5.580	0.295	5.576
SGR-118.0-0A6	4.686	4.730	5.580	0.295	5.576
SGR-119.2-0A6	4.731	4.770	5.580	0.295	5.576
SGR-120.2-0A6	4.771	4.810	5.580	0.295	5.576
SGR-121.2-0A6	4.811	4.855	5.580	0.295	5.576
SGR-122.3-0A6	4.856	4.895	5.580	0.295	5.576
SGR-123.3-0A6	4.896	4.935	6.080	0.295	6.076
SGR-124.4-0A6	4.936	4.980	6.080	0.295	6.076
SGR-125.5-0A6	4.981	5.020	6.080	0.295	6.076
SGR-126.5-0A6	5.021	5.060	6.080	0.295	6.076
SGR-127.5-0A6	5.061	5.105	6.080	0.295	6.076
SGR-128.7-0A6	5.106	5.145	6.080	0.295	6.076
SGR-129.7-0A6	5.146	5.185	6.080	0.295	6.076
SGR-130.7-0A6	5.186	5.230	6.080	0.295	6.076
SGR-131.9-0A6	5.231	5.270	6.080	0.295	6.076
SGR-132.9-0A6	5.271	5.310	6.080	0.295	6.076
SGR-133.9-0A6	5.311	5.355	6.080	0.295	6.076
SGR-135.0-0A6	5.356	5.395	6.080	0.295	6.076
SGR-136.0-0A6	5.396	5.435	6.580	0.295	6.576
SGR-137.1-0A6	5.436	5.480	6.580	0.295	6.576
SGR-138.2-0A6	5.481	5.520	6.580	0.295	6.576
SGR-139.2-0A6	5.521	5.560	6.580	0.295	6.576
SGR-140.2-0A6	5.561	5.605	6.580	0.295	6.576
SGR-141.4-0A6	5.606	5.645	6.580	0.295	6.576
SGR-142.4-0A6	5.646	5.685	6.580	0.295	6.576
SGR-143.4-0A6	5.686	5.730	6.580	0.295	6.576
SGR-144.6-0A6	5.731	5.770	6.580	0.295	6.576
SGR-145.6-0A6	5.771	5.810	6.580	0.295	6.576
SGR-146.6-0A6	5.811	5.855	6.580	0.295	6.576
SGR-147.7-0A6	5.856	5.895	6.580	0.295	6.576
SGR-148.7-0A6	5.896	5.935	7.080	0.295	7.076
SGR-149.8-0A6	5.936	5.980	7.080	0.295	7.076
SGR-150.9-0A6	5.981	6.020	7.080	0.295	7.076

Custom Part-No Return



Kits with Aluminum Plates and Spacers

Includes AEGIS® SGR Bearing Protection Ring and all mounting hardware



NEMA Motors Solid	NEMA Motors Split	Motor Shaft Diameter "u"	NEMA Frame	Plate OD
SGR-0.625-NEMA	SGR-0.625-NEMA-1A4	0.625"	56	3.75"
SGR-0.875-NEMA	SGR-0.875-NEMA-1A4	0.875"	56HZ, 143T, 145T	5.60"
SGR-1.125-NEMA	SGR-1.125-NEMA-1A4	1.125"	182T, 184T	5.60"
SGR-1.375-NEMA	SGR-1.375-NEMA-1A4	1.375"	213T, 215T	5.60"
SGR-1.625-NEMA	SGR-1.625-NEMA-1A4	1.625"	254T, 256T, 284TS, 286TS	6.30"
SGR-1.875-NEMA	SGR-1.875-NEMA-1A4	1.875"	284T, 286T, 324TS, 326TS, 364TS, 365TS	6.30"
SGR-2.125-NEMA	SGR-2.125-NEMA-1A4	2.125"	324T, 326T, 404TS, 405TS	6.60"
SGR-2.375-NEMA	SGR-2.375-NEMA-1A4	2.375"	364T, 365T, 444TS, 445TS, 447TS, 449TS	6.60"
SGR-2.875-NEMA	SGR-2.875-NEMA-1A4	2.875"	404T, 405T	7.30"
SGR-3.375-NEMA	SGR-3.375-NEMA-1A4	3.375"	444T, 445T, 447T, 449T	7.60"

IEC Motors Solid	IEC Motors Split	IEC Shaft Diameter	IEC Frame	Plate OD
SGR-19-IEC	SGR-19-IEC-2A4	19mm	IEC 80 (2, 4, 6, 8 pole)	142mm
SGR-24-IEC	SGR-24-IEC-2A4	24mm	IEC 90S, 90L (2, 4, 6, 8 pole)	142mm
SGR-28-IEC	SGR-28-IEC-2A4	28mm	IEC 100L, 112M (2, 4, 6, 8 pole)	142mm
SGR-38-IEC	SGR-38-IEC-2A4	38mm	IEC 132S, 132M (2, 4, 6, 8 pole)	160mm
SGR-42-IEC	SGR-42-IEC-2A4	42mm	IEC 160M, 160L (2, 4, 6, 8 pole)	160mm
SGR-48-IEC	SGR-48-IEC-2A4	48mm	IEC 180M, 180L (2, 4, 6, 8 pole)	160mm
SGR-55-IEC	SGR-55-IEC-2A4	55mm	IEC 200L (2, 4, 6, 8 pole); IEC 225S, 225M (2 pole)	168mm
SGR-60-IEC	SGR-60-IEC-2A4	60mm	IEC 225S, 225M (4, 6, 8 pole); IEC 250M (2 pole)	168mm
SGR-65-IEC	SGR-65-IEC-2A4	65mm	IEC 250M (4, 6, 8 pole); IEC 280M, 280S, 315S, 315M, 315L (2 pole)	185mm
SGR-75-IEC	SGR-75-IEC-2A4	75mm	IEC 280S, 280M (4, 6, 8 pole); IEC 355M, 355L (2 pole)	193mm
SGR-80-IEC	SGR-80-IEC-2A4	80mm	IEC 315S, 315M, 315L (4, 6, 8 pole)	193mm

SOLID



- 1 AEGIS® SGR
- 1 mounting plate
- 3 screws (inches or metric)
- 3 washers
- 3 lock washers
- 3 spacers*

SPLIT



- 1 AEGIS® Split Ring SGR
- 1 split mounting plate
- 3 screws (inches or metric)
- 3 washers
- 3 lock washers
- 3 spacers*

Each kit includes 3 spacer lengths: 1/4", 1/2", and 1" for NEMA kits and 7mm, 17mm, and 27mm for IEC kits.

Mounting Plates with Hardware(no SGR)

On occasions when the shaft diameter is not one of the kitted NEMA sizes, select the correct SGR for the shaft diameter, note the SGR OD, then go to the chart to the right to determine the matching Mounting Plate. Plate can be used with a solid or split ring SGR.



SGR sold separately

English Hardware	Fits any SGR with OD as specified SGR OD:	Metric Hardware	Fits any SGR with OD as specified SGR OD:
SGR-M40-1A4	1.60" (40.6mm)	SGR-M40-2A4	1.60" (40.6mm)
SGR-M53-1A4	2.10" (53.3mm)	SGR-M53-2A4	2.10" (53.3mm)
SGR-M68-1A4	2.68" (68.1mm)	SGR-M68-2A4	2.68" (68.1mm)
SGR-M78-1A4	3.10" (78.8mm)	SGR-M78-2A4	3.10" (78.8mm)
SGR-M91-1A4	3.60" (91.4mm)	SGR-M91-2A4	3.60" (91.4mm)
SGR-M104-1A4	4.10" (104.1mm)	SGR-M104-2A4	4.10" (104.1mm)
SGR-M116-1A4	4.60" (116.8mm)	SGR-M116-2A4	4.60" (116.8mm)
SGR-M129-1A4	5.10" (129.5mm)	SGR-M129-2A4	5.10" (129.5mm)
SGR-M142-1A4	5.60" (142.2mm)	SGR-M142-2A4	5.60" (142.2mm)
SGR-M154-1A4	6.10" (154.9mm)	SGR-M154-2A4	6.10" (154.9mm)
SGR-M167-1A4	6.60" (167.6mm)	SGR-M167-2A4	6.60" (167.6mm)
SGR-M180-1A4	7.10" (180.3mm)	SGR-M180-2A4	7.10" (180.3mm)
Kit includes (1) mounting plate, (3) 1/4" spacers with screws and washers (3) 1/2" spacers with screws and washers (3) 1" spacers with screws and washers		Kit includes (1) mounting plate, (3) 7mm spacers with screws and washers (3) 17mm spacers with screws and washers (3) 27mm spacers with screws and washers	



Custom Large SGR, iPRO, WTG



AEGIS® Large SGR

Shaft diameter 6.03" to 15.748"

For Motors up to and including 500hp (Low Voltage-up to 600 volts AC)

Outside Diameter: Shaft Diameter + 1.50"
Drawings available upon request

Solid and Split Ring design

Includes two mounting hardware options:

Bracket Mounting: (6) Standard mounting brackets, (6) 6-32 x 1/4" SHCS with star washers
Bolt Through Mounting: (4) 8-32 x 5/8" SHCS with lock washers



AEGIS® iPROSL

Shaft Diameter 3.00" to 30.00"

High Current Bearing Protection for Large Motors over 500hp and Generators (Medium Voltage-greater than 600 volts AC)

Outside Diameter: Slim Line Version-Shaft Diameter + 1.86"
Drawings available upon request

Solid and Split Ring design
6 rows of fiber

Includes bolt through mounting hardware: (4) 8-32 x 1" SHCS with lock washers

Custom Brackets available upon request

Ships with CS015 Colloidal Silver Shaft Coating



AEGIS® WTGSL Wind Turbine Grounding

Shaft Diameter 3.00" to 15.75"

High Current Bearing Protection for Wind Turbine Generators

Outside Diameter: Shaft Diameter + 1.86"
Drawings available upon request

Solid and Split Ring design
6 rows of fiber

Includes bolt through mounting hardware: (4) 8-32 x 1" SHCS with lock washers

Custom Brackets available upon request

Ships with CS015 Colloidal Silver Shaft Coating





SVP-KIT-3000MB



SVP-KIT-3000



SVP-TIP-3000

AEGIS® SVP Shaft Voltage Probe Kits Conductive Microfiber tips for use with Fluke 190 Series II ScopeMeter®

For the first time you can easily and more accurately measure the voltage on a rotating shaft. The AEGIS® SVP Shaft Voltage Probe's unique design of high density conductive microfibers ensures continuous contact with the rotating shaft. Used with the Fluke 190 Series II ScopeMeter, you can determine if your motor is subject to potentially damaging bearing currents. Visit our website for a complete part list.

AEGIS® SVP Shaft Voltage Probe Kits

Catalog Number	Includes:
SVP-KIT-3000MB	3 SVP tips, probe holder with two piece extension rod (total length of probe holder with extension rod is 18 inches), AEGIS® Grounding Simulator, and magnetic base.
SVP-KIT-3000	3 SVP tips, probe holder with two piece extension rod, and AEGIS® Grounding Simulator.
SVP-TIP-3000	3 SVP replacement tips only
Fits Fluke VPS410 Voltage Probe. For other probe styles, see website.	
Installation: Pull off the hook clip from the voltage probe. Install the SVP tip over the voltage probe tip until seated against the probe shoulder. Secure with plastic screw. Do not over tighten screw.	
10:1 oscilloscope probe not included Magnetic base not sold separately	



AEGIS® Colloidal Silver Shaft Coating

Catalog Number	Coverage:
CS015	20-25 applications based on a 3" shaft diameter
Used to improve the conductivity of the steel shaft surface. Apply to any VFD driven motor shaft prior to installing the AEGIS® Bearing Protection Ring.	
Note: Shelf life is 6 months	



AEGIS® Conductive Epoxy

Catalog Number	Coverage:
EP2400	2-3 applications
Used to install the AEGIS® Bearing Protection Ring without drilling and tapping into the motor end bell.	
Note: Shelf life is 9 months	



Motors Controlled by PWM Drives (VFD) Electrical Bearing Damage Protection

Engineering Specification:

Construction Specification Institute Section 23 05 13
MOTORS

23 05 13

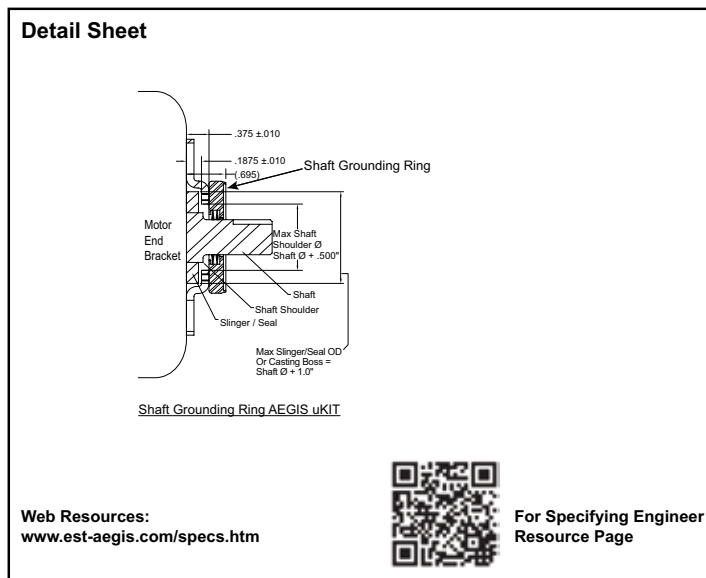
2.1 MOTORS

A. General Requirements:

1. All motors operated on variable frequency drives shall be equipped with a maintenance free, conductive micro fiber, shaft grounding ring with a minimum of two rows of circumferential micro fibers to discharge electrical shaft currents within the motor and/or its bearings.
2. Application Note: Motors up to 100HP shall be provided with a minimum of one shaft grounding ring installed either on the drive end or non-drive end. Motors over 100HP shall be provided with an insulated bearing on the non-drive end and a shaft grounding ring on the drive end of the motor. Grounding rings shall be provided and installed by the motor pump manufacturer or contractor and shall be installed in accordance with the manufacturer's recommendations.

Recommended part: AEGIS® SGR Bearing Protection Ring

Recommended source: Electro Static Technology-ITW
Manufacturer of AEGIS® Bearing Protection Ring
Ph: 207.998.5140 | sales@est-aegis.com | www.est-aegis.com



WARRANTY: Units are guaranteed for one year from date of purchase against defective materials and workmanship. Replacement will be made except for defects caused by abnormal use or mishandling. All statements and technical information contained herein, or presented by the manufacturer or his representative are rendered in good faith. User must assume responsibility to determine suitability of the product for intended use. The manufacturer shall not be liable for any injury, loss or damage, direct or consequential arising out of the use, or attempt to use the product.

The following patents apply: 8199453, 8169766, 7193836, 7136271, 7528513, 7339777, and other patents pending.



Conversion Table - Inches - Metric

Catalog Number	Min.shaft diameter inches	Max.shaft diameter inches	Min.shaft diameter mm	Max.shaft diameter mm
SGR-6.9-***	0.311	0.355	7.9	9.0
SGR-8.0-***	0.356	0.395	9.1	10.0
SGR-9.0-***	0.396	0.435	10.1	11.0
SGR-10.1-***	0.436	0.480	11.1	12.2
SGR-11.2-***	0.481	0.520	12.3	13.2
SGR-12.2-***	0.521	0.560	13.3	14.2
SGR-13.2-***	0.561	0.605	14.3	15.4
SGR-14.4-***	0.606	0.645	15.5	16.4
SGR-15.4-***	0.646	0.685	16.5	17.4
SGR-16.4-***	0.686	0.730	17.5	18.5
SGR-17.6-***	0.731	0.774	18.6	19.7
SGR-18.7-***	0.775	0.815	19.8	20.7
SGR-19.7-***	0.816	0.855	20.8	21.7
SGR-20.7-***	0.856	0.895	21.8	22.7
SGR-21.7-***	0.896	0.935	22.8	23.7
SGR-22.8-***	0.936	0.980	23.8	24.9
SGR-23.9-***	0.981	1.020	25.0	25.9
SGR-24.9-***	1.021	1.060	26.0	26.9
SGR-25.9-***	1.061	1.105	27.0	28.1
SGR-27.1-***	1.106	1.145	28.2	29.1
SGR-28.1-***	1.146	1.185	29.2	30.1
SGR-29.1-***	1.186	1.230	30.2	31.2
SGR-30.3-***	1.231	1.270	31.3	32.3
SGR-31.3-***	1.271	1.310	32.4	33.3
SGR-32.3-***	1.311	1.355	33.4	34.4
SGR-33.4-***	1.356	1.395	34.5	35.4
SGR-34.4-***	1.396	1.435	35.5	36.4
SGR-35.5-***	1.436	1.480	36.5	37.6
SGR-36.6-***	1.481	1.520	37.7	38.6
SGR-37.6-***	1.521	1.560	38.7	39.6
SGR-38.6-***	1.561	1.605	39.7	40.8
SGR-39.8-***	1.606	1.645	40.9	41.8
SGR-40.8-***	1.646	1.685	41.9	42.8
SGR-41.8-***	1.686	1.730	42.9	43.9
SGR-43.0-***	1.731	1.770	44.0	45.0
SGR-44.0-***	1.771	1.810	45.1	46.0
SGR-45.0-***	1.811	1.855	46.1	47.1
SGR-46.1-***	1.856	1.895	47.2	48.1
SGR-47.1-***	1.896	1.935	48.2	49.1
SGR-48.2-***	1.936	1.980	49.2	50.3
SGR-49.3-***	1.981	2.020	50.4	51.3
SGR-50.3-***	2.021	2.060	51.4	52.3
SGR-51.3-***	2.061	2.105	52.4	53.5
SGR-52.5-***	2.106	2.145	53.6	54.5
SGR-53.5-***	2.146	2.185	54.6	55.5
SGR-54.5-***	2.186	2.230	55.6	56.6
SGR-55.7-***	2.231	2.270	56.7	57.7
SGR-56.7-***	2.271	2.310	57.8	58.7
SGR-57.7-***	2.311	2.355	58.8	59.8
SGR-58.8-***	2.356	2.395	59.9	60.8
SGR-59.8-***	2.396	2.435	60.9	61.8
SGR-60.9-***	2.436	2.480	61.9	63.0
SGR-62.0-***	2.481	2.520	63.1	64.0
SGR-63.0-***	2.521	2.560	64.1	65.0
SGR-64.0-***	2.561	2.605	65.1	66.2
SGR-65.2-***	2.606	2.645	66.3	67.2
SGR-66.2-***	2.646	2.685	67.3	68.2
SGR-67.2-***	2.686	2.730	68.3	69.3
SGR-68.4-***	2.731	2.770	69.4	70.4
SGR-69.4-***	2.771	2.810	70.5	71.4
SGR-70.4-***	2.811	2.855	71.5	72.5
SGR-71.5-***	2.856	2.895	72.6	73.5
SGR-72.5-***	2.896	2.935	73.6	74.5
SGR-73.6-***	2.936	2.980	74.6	75.7
SGR-74.7-***	2.981	3.020	75.8	76.7
SGR-75.7-***	3.021	3.060	76.8	77.7
SGR-76.7-***	3.061	3.105	77.8	78.9
SGR-77.9-***	3.106	3.145	79.0	79.9
SGR-78.9-***	3.146	3.185	80.0	80.9

Catalog Number	Min.shaft diameter inches	Max.shaft diameter inches	Min.shaft diameter mm	Max.shaft diameter mm
SGR-79.9-***	3.186	3.230	81.0	82.0
SGR-81.1-***	3.231	3.270	82.1	83.1
SGR-82.1-***	3.271	3.310	83.2	84.1
SGR-83.1-***	3.311	3.355	84.2	85.2
SGR-84.2-***	3.356	3.395	85.3	86.2
SGR-85.2-***	3.396	3.435	86.3	87.2
SGR-86.3-***	3.436	3.480	87.3	88.4
SGR-87.4-***	3.481	3.520	88.5	89.4
SGR-88.4-***	3.521	3.560	89.5	90.4
SGR-89.4-***	3.561	3.605	90.5	91.6
SGR-90.6-***	3.606	3.645	91.7	92.6
SGR-91.6-***	3.646	3.685	92.7	93.6
SGR-92.6-***	3.686	3.730	93.7	94.7
SGR-93.8-***	3.731	3.770	94.8	95.8
SGR-94.8-***	3.771	3.810	95.9	96.8
SGR-95.8-***	3.811	3.855	96.9	97.9
SGR-96.9-***	3.856	3.895	98.0	98.9
SGR-97.9-***	3.896	3.935	99.0	99.9
SGR-99.0-***	3.936	3.980	100.0	101.1
SGR-100.1-***	3.981	4.020	101.2	102.1
SGR-101.1-***	4.021	4.060	102.2	103.1
SGR-102.1-***	4.061	4.105	103.2	104.3
SGR-103.3-***	4.106	4.145	104.4	105.3
SGR-104.3-***	4.146	4.185	105.4	106.3
SGR-105.3-***	4.186	4.230	106.4	107.4
SGR-106.5-***	4.231	4.270	107.5	108.5
SGR-107.5-***	4.271	4.310	108.6	109.5
SGR-108.5-***	4.311	4.355	109.6	110.6
SGR-109.6-***	4.356	4.395	110.7	111.6
SGR-110.6-***	4.396	4.435	111.7	112.6
SGR-111.7-***	4.436	4.480	112.7	113.8
SGR-112.8-***	4.481	4.520	113.9	114.8
SGR-113.8-***	4.521	4.560	114.9	115.8
SGR-114.8-***	4.561	4.605	115.9	117.0
SGR-116.0-***	4.606	4.645	117.1	118.0
SGR-117.0-***	4.646	4.685	118.1	119.0
SGR-118.0-***	4.686	4.730	119.1	120.1
SGR-119.2-***	4.731	4.770	120.2	121.2
SGR-120.2-***	4.771	4.810	121.3	122.2
SGR-121.2-***	4.811	4.855	122.3	123.3
SGR-122.3-***	4.856	4.895	123.4	124.3
SGR-123.3-***	4.896	4.935	124.4	125.3
SGR-124.4-***	4.936	4.980	125.4	126.5
SGR-125.5-***	4.981	5.020	126.6	127.5
SGR-126.5-***	5.021	5.060	127.6	128.5
SGR-127.5-***	5.061	5.105	128.6	129.7
SGR-128.7-***	5.106	5.145	129.8	130.7
SGR-129.7-***	5.146	5.185	130.8	131.7
SGR-130.7-***	5.186	5.230	131.8	132.8
SGR-131.9-***	5.231	5.270	132.9	133.9
SGR-132.9-***	5.271	5.310	134.0	134.9
SGR-133.9-***	5.311	5.355	135.0	136.0
SGR-135.0-***	5.356	5.395	136.1	137.0
SGR-136.0-***	5.396	5.435	137.1	138.0
SGR-137.1-***	5.436	5.480	138.1	139.2
SGR-138.2-***	5.481	5.520	139.3	140.2
SGR-139.2-***	5.521	5.560	140.3	141.2
SGR-140.2-***	5.561	5.605	141.3	142.4
SGR-141.4-***	5.606	5.645	142.5	143.4
SGR-142.4-***	5.646	5.685	143.5	144.4
SGR-143.4-***	5.686	5.730	144.5	145.5
SGR-144.6-***	5.731	5.770	145.6	146.6
SGR-145.6-***	5.771	5.810	146.7	147.6
SGR-146.6-***	5.811	5.855	147.7	148.7
SGR-147.7-***	5.856	5.895	148.8	149.7
SGR-148.7-***	5.896	5.935	149.8	150.7
SGR-149.8-***	5.936	5.980	150.8	151.9
SGR-150.9-***	5.981	6.020	152.0	152.9

*** PN suffix differs depending on mounting option

Fraction, Decimal and Millimeter Equivalents

Fraction	Decimal	mm
1/64	.0156	0.396
1/32	.0312	0.793
3/64	.0468	1.190
1/16	.0625	1.587
5/64	.0781	1.984
3/32	.0937	2.381
7/64	.1093	2.778
1/8	.1250	3.175
9/64	.1406	3.571
5/32	.1562	3.968
11/64	.1718	4.365
3/16	.1875	4.762
13/64	.2031	5.159
7/32	.2187	5.556
15/64	.2343	5.953
1/4	.2500	6.350
17/64	.2656	6.746
9/32	.2812	7.143
19/64	.2968	7.540
5/16	.3125	7.937
21/64	.3281	8.334
11/32	.3437	8.731
23/64	.3593	9.128
3/8	.3750	9.525
25/64	.3906	9.921
13/32	.4062	10.318
27/64	.4218	10.715
7/16	.4375	11.112
29/64	.4531	11.509
15/32	.4687	11.906
31/64	.4843	12.303
1/2	.5000	12.700
33/64	.5156	13.096
17/32	.5312	13.493
35/64	.5468	13.890
9/16	.5625	14.287
37/64	.5781	14.684
19/32	.5937	15.081
39/64	.6093	15.478
5/8	.6250	15.875
41/64	.6406	16.271
21/32	.6562	16.668
43/64	.6718	17.065
11/16	.6875	17.462
45/64	.7031	17.859
23/32	.7187	18.256
47/64	.7343	18.653
3/4	.7500	19.050
49/64	.7656	19.446
25/32	.7812	19.843
51/64	.7968	20.240
13/16	.8125	20.637
53/64	.8281	21.034
27/32	.8437	21.431
55/64	.8593	21.828
7/8	.8750	22.225
57/64	.8906	22.621
29/32	.9062	23.018
59/64	.9218	23.415
15/16	.9375	23.812
61/64	.9531	24.209
31/32	.9687	24.606
63/64	.9843	25.003
1	1.0000	25.400





Associate Member



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