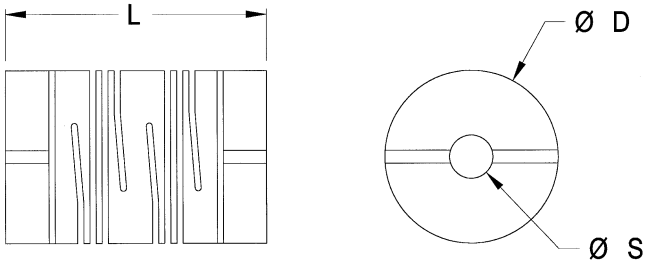
Accessories

FLEXIBLE–ZERO BACKLASH
STAINLESS STEEL & ALUMINUM

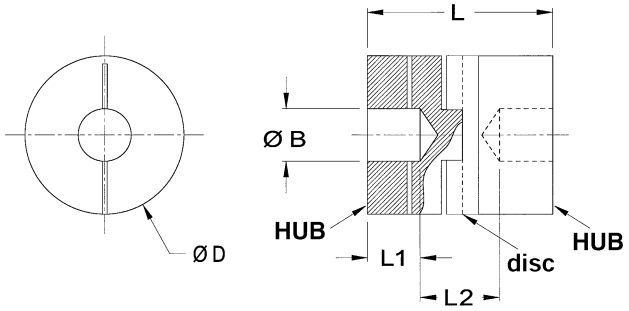
- Ideal for Lead Screw Applications
- Misalignment Capability
- Withstands Hostile Environments and Temperatures
- Zero Backlash
- Torsionally Rigid
- One Piece Construction
- Allows for Near Butting of Shafts
- Constant Velocity
- No Lubrication Required
- Aircraft Grade Stainless & Aluminum



PART NUMBERS	S BORE ±.002	L LENGTH ± 1/64"	D DIAMETER ± 1/64"	MAXIMUM TORQUE INCH LBS.
AC18	.188	1-1/4	3/4	3.5
SC18		.90		4.9
AC25	.250	1-1/2	1.0	7.8
SC25		1-1/4		13
AC31	.313	1-1/2	1.0	7.3
SC31		1-1/4		12
AC37	.375	1-3/4	1-1/4	14
SC37		2-3/8		27
AC50	.500	2-1/4	1-1/2	29
SC50		2-5/8		50
AC62	.625	2-1/2	2.0	54
SC62*		3.0		96
AC75	.750	2-1/2	2.0	48
SC75*		3.0		84

- *AC Part No's. are made of 7075-T6 Aluminum, Anodized AC Parts will accept 3° angular and .010" parallel offset misalignment.*
- *SC Part No's. are made of 17-4 Cres Stainless Steel. SC parts will accept 5° angular and .010" parallel offset misalignment.*

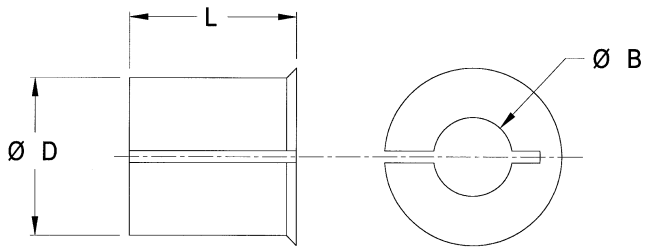
Three Piece Type Couplers



Part Number	Bore	O.D.	L	L1	L2	Use With DISK
HUB1875	0.188	0.75	1.02	0.37	0.28	DISK75
HUB2575	0.250	0.75	1.02	0.37	0.28	
HUB0575	0.197 (5mm)	0.75	1.02	.037	.028	
HUB25100	0.250	1.00	1.28	0.46	0.36	DISK100
HUB37100	0.375	1.00	1.28	0.46	0.36	
HUB37131	0.375	1.31	1.89	0.59	0.71	DISK131
HUB50131	0.500	1.31	1.89	0.59	0.71	
HUB37163	0.375	1.63	2.00	0.70	0.60	DISK163
HUB50163	0.500	1.63	2.00	0.70	0.60	
HUB62163	0.625	1.63	2.00	0.70	0.60	

Ordering Instructions: Specify any two "Hubs" with the same O.D. and one matching DISK.
For example: HUB25100, HUB37100, DISK100

Bore Adaptors



Part Number	Bore	O.D.	L
ADP0305	0.118 (3mm)	0.197 (5mm)	0.17
ADP1825	0.1875	0.250	0.26

Grease

Overview

We offer a full compliment of lubricants including our low vapor pressure greases for clean room and vacuum applications. The TriGel line is specifically formulated to offer a lubrication solution for a wide range of linear motion applications. Choose the appropriate gel for your requirements and get the utmost performance out of your BS&A products.

Lubrication Selection Chart for Ball & Lead Screw Assemblies

BS&A Gel Type	TriGel-300S	TriGel-450R	TriGel-600SM	TriGel-1200SC	TriGel-1800RC
Application	Acme Screws, Supernuts, Plastic Nuts	Ball Screws, Linear Bearings	Bronze Nuts	Acme Plastic Nuts, Clean Room, High Vacuum	Ball Screws, Linear Bearings, Bronze Nuts, Clean Room, Vacuum
Maximum Temperature	200°C (392°F)	125°C (257°F)	125°C (257°F)	250°C (482°F)	125°C (257°F)
Mechanism Materials	Plastic on Plastic or Metal	Metal on Metal	Metal on Metal Bronze on Steel	Plastics or Metals, any Combination	Metal on Metal
Mechanical Load	Light	Moderate	Moderate to Heavy	Light to Moderate	Moderate
Precision Positioning	Not recommended w/o OEM testing	Not recommended w/o OEM testing	Not recommended w/o OEM testing	Usually OK	Usually OK
Very Low Torque Variation Over Temperature	Yes	—	—	Yes	—
Very Low Starting Torque	Yes	Yes	—	Yes	Yes
Compatibility w/ Reactive Chemicals	Not recommended w/o OEM testing	Not recommended w/o OEM testing	Not recommended w/o OEM testing	Usually OK	Not recommended w/o OEM testing
Compatibility w/ Plastics and Elastomers	May cause silicone rubber seals to swell	May cause EPDM seals to swell	May cause EPDM seals to swell	Usually OK	May cause EPDM seals to swell
Clean Room Use	Not recommended	Not recommended	Not recommended	Usually OK	Usually OK
High Vacuum Use	Not recommended	Not recommended	Not recommended	Usually OK	Usually OK
Vapor Pressure (25°C)	Varies with lot	Varies with lot	Varies with lot	8 x 10–9 torr	4 x 10–9 torr
Lubricant Price 10cc Syringe** 1 Pound Tube	 ✔ ✔	 ✔ ✔	 4 oz tube	 ✔ NA	 ✔ NA

**Maximum temperature for continuous exposure. Higher surge temperatures may be permissible but should be validated in the actualend use by the OEM. Low temperature limits are –15°C or lower. Consult BS&A for specifics.*

Wiper Kits

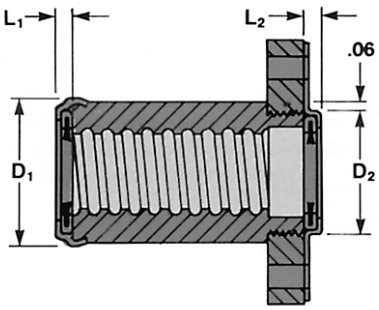
Overview

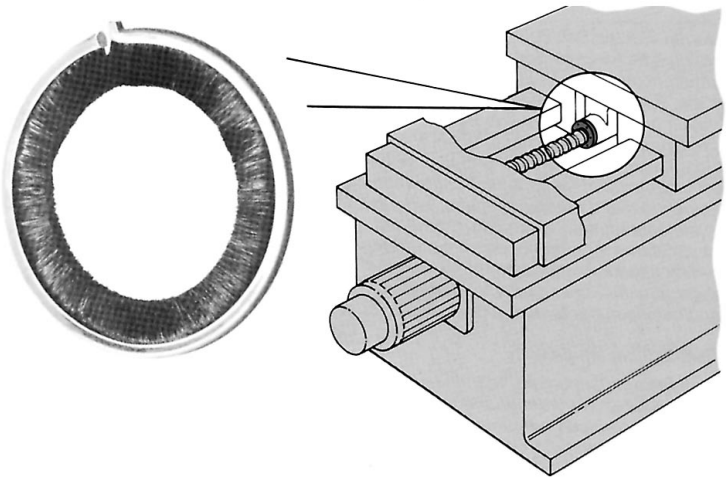
Brush type wiper kits maximize ball bearing screw performance by helping to spread lubricant over the length of the screw and preventing internal ball nut contamination from foreign materials. Wiper kits are optional on models R-0308 through R-1504, and standard on models R-1502 through R–3066. Optional and standard wiper kits are also available for comparable zero backlash/preload ball nut assemblies.

For heavily contaminated environments. BS&A recommends the use of metal shields, bellows type enclosures or extensions in conjunction with brush wipers for maximum protection.

Type A

For these ball bearing screw sizes, end caps attached to the ball nut and flange hold the wipers in position. The Type A wiper kit includes a flange end cap. If the application does not use a flange, discard the flange end cap and epoxy the wiper to the end of the ball nut.





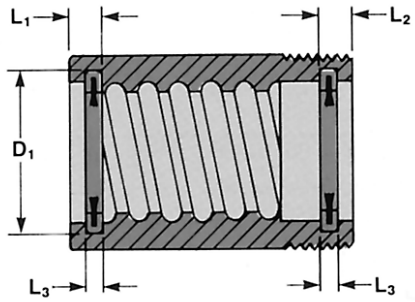
Model†	D_1 Max.	D_2 Max.	L_1 Max.	L_2 Max.	Wiper Part Number
R-0308	.838	.880	.139	.148	8103-101-002
RC0308	.838	.880	.139	.148	8103-101-002
R-0505	1.122	1.138	.139	.148	8105-101-002
R-0502	1.122	1.138	.139	.148	8105-101-002
RS0502	1.122	1.138	.139	.148	8105-101-002
RC0605	1.177	1.060	.139	.148	8106-101-002
RK0605	1.177	1.060	.139	.148	8106-101-002
R-0705	1.382	1.230	.158	.148	8107-101-002
R-0702	1.382	1.230	.158	.148	8107-101-002
RC0705	1.382	1.230	.158	.148	8107-101-002
RS0702	1.382	1.230	.158	.148	8107-101-002
R-1001	1.763	1.610	.158	.148	8110-101-002
R-1004	1.763	1.610	.158	.148	8110-101-002
R-1002	1.763	1.610	.158	.148	8110-101-002
RC1004	1.763	1.610	.158	.148	8110-101-002
RK1004	1.763	1.610	.158	.148	8110-101-002
RL1004	1.763	1.610	.158	.148	8110-101-002
RS1001	1.763	1.610	.158	.148	8110-101-002
R-1105	1.763	1.610	.158	.148	8111-101-002
R-1504	2.163	2.050	.158	.148	8115-101-006

†Not for use with some ball nuts.

Wiper Kits

Type B

For these models, easy-to-install snap-in wiper kits prevent internal ball nut contamination which decreases performance and dynamic life ratings.



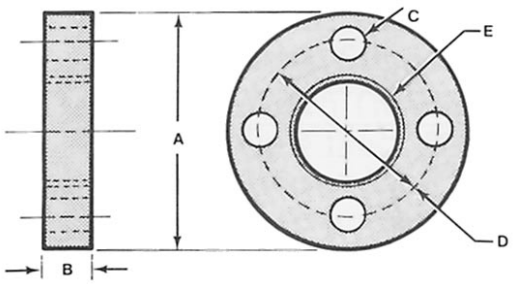
Model	D_1 Nom.	L_1 Nom.	L_2 Nom.	L_3 Nom.	Wiper Part Number
R-1501*	2.096	.200	.190	.130	8115-101-004
RH1501*	2.096	.200	.190	.130	8115-101-004
R-1520*	2.096	.200	.190	.130	8115-101-004
RH1520*	2.096	.200	.190	.130	8115-101-004
R-1547*	2.096	.200	.190	.130	8115-101-004
R-1502*	2.096	.200	.190	.130	8115-101-004
RL1502*	2.096	.200	.190	.130	8115-101-004
R-2002*	2.600	.250	.190	.130	8120-101-002
RL2002*	2.600	.250	.190	.130	8120-101-002
R-2001*	2.600	.250	.190	.130	8120-101-002
R-2202*	2.793	.220	.190	.130	8122-101-002
R-2502*	3.126	.250	.190	.130	8125-101-002
R-2501*	3.126	.250	.190	.130	8125-101-002
R-3066*	3.762	.250	.190	.130	8130-101-002

** wiper kit standard with ball nut*

Standard Mounting Flanges

For Bronze Nuts & Supernuts™

These mounting flanges are designed for easy mounting when fixed to a bronze nut or Supernut™.



Aluminum (6062-T6) Flanges for Bronze Nuts & Supernuts™					
	Flange Dimensions				
Part No.	A Diameter	B Width	C Hole (No.)	D B.C. Diameter	E thread
F25	1.25	.187	.140 (4)	1.00	9/16-18
F37	1.60	.250	.177 (4)	1.24	5/8-18
F50	2.00	.375	.266 (4)	1.50	15/16-16
F75	2.50	.500	.266 (4)	2.00	1 3/8-16
F100	3.00	.600	.266 (4)	2.37	1 9/16-18

Aluminum flanges do not have a set screw which could deform the Supernut™ and possibly cause binding. Aluminum flanges should be pinned or bonded to Supernuts™ to prevent unwanted disassembly during operation.