

TELESCOPING UNIVERSAL JOINTS

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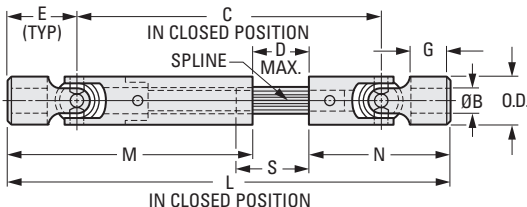
HEAT-RESISTANT
CORROSION-RESISTANT

➤ **MATERIAL:**

Joints - 303 Series Stainless Steel
Spline - 416 Stainless Steel

➤ **OPERATING TEMPERATURE:**

0°F to +750°F



INCH COMPONENT

Catalog Number	O.D.	B Bore +.001 -.000	E	M	N	L Closed	C Closed	D Max.	Max. Torque lbf. in.	S	G
A 5X 8-SE1608	1/2	.2500	.79	3.83	1.58	5.41	3.83	1-5/8	40	2-1/4	33/64
A 5X 8-SE2012	5/8	.3750	.98	4.96	1.96	6.92	4.96	2-1/4	95	3	21/32
A 5X 8-SE2514	25/32	.4375	1.10	5.95	2.20	8.15	5.95	2-7/8	240	3-3/4	43/64
A 5X 8-SE3216	1	.5000	1.40	7.30	2.80	10.10	7.30	3-1/4	600	4-1/2	55/64
A 5X 8-SE3220	1	.6250	1.40	7.30	2.80	10.10	7.30	3-1/4	600	4-1/2	55/64

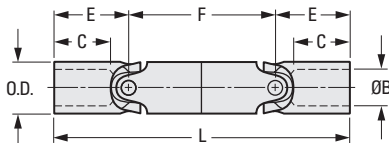
UNIVERSAL JOINTS

DOUBLE JOINT
HAND-OPERATED & POWER DRIVEN
1750 rpm OR LESS



➤ **MATERIAL:**

Alloy Steel



INCH COMPONENT

Catalog Number	O.D.	B Bore +.001 -.000	C Bore Depth ± 1/32	L Overall Length	E	F	Approx. Weight lb.
Solid							
A 5Q 8-DD100	3/8	—	—	3-1/2	7/8	1-3/4	.09
A 5Q 8-DD200	1/2	—	—	4	1	2	.18
A 5Q 8-DD300	5/8	—	—	4-1/2	1-1/8	2-1/4	.32
A 5Q 8-DD400	3/4	—	—	5-3/8	1-11/32	2-11/16	.55
A 5Q 8-DD500	7/8	—	—	6	1-1/2	3	.82
A 5Q 8-DD600	1	—	—	6-3/4	1-11/16	3-3/8	1.20
Bored							
A 5Q 8-DD106	3/8	.1875	9/16	3-1/2	7/8	1-3/4	.08
A 5Q 8-DD208	1/2	.2500	5/8	4	1	2	.16
A 5Q 8-DD310	5/8	.3125	11/16	4-1/2	1-1/8	2-1/4	.30
A 5Q 8-DD412	3/4	.3750	7/8	5-3/8	1-11/32	2-11/16	.50
A 5Q 8-DD514	7/8	.4375	7/8	6	1-1/2	3	.74
A 5Q 8-DD616	1	.5000	1	6-3/4	1-11/16	3-3/8	1.05

DOUBLE UNIVERSAL WITH BALL SPLINE
 ZERO BACKLASH
 ACCOMMODATES 1/4" AXIAL MOTION
 LOW INERTIA

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> MATERIAL:

- Body - Fig. 1: 303 Stainless Steel
- Fig. 2: 440 Stainless Steel
- Balls - Fig. 1 & 2: 440 Stainless Steel
- Ends and Flanges - Fig. 2: 300 Series Stainless Steel

> LUBRICATION:

Dry film plus oil suspension

> FEATURES:

Zero backlash is attained with patented design and close dimensional control of components. Use where axial motion is present while transmitting rotary motion.

> SPECIFICATIONS:

- Torque Ratings:** For static conditions with in-line loading
- Max. Operating Speed @ 0°** - Fig. 1: 10000 rpm
- Fig. 2: 4000 rpm
- Max. Angle** - Fig. 1: 60° @ 4000 rpm
- Fig. 2: 40° @ 1800 rpm

Angular relationship between tapped holes, where applicable, may vary freely. Also available on special order: Travel of up to 4 in. on Fig. 1 units and 6 in. on Fig. 2 units, telescoping single joints, split hub ends and other bores.

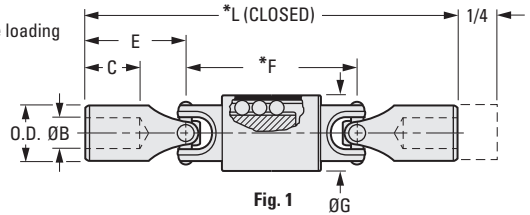


Fig. 1

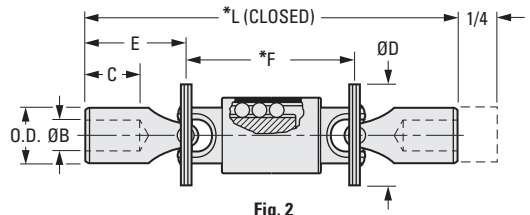


Fig. 2

INCH COMPONENT

Catalog Number	O.D.	B Bore +.001 -.000	C Bore Depth	E End Unit	F* Center Unit (Closed)	L (Closed)	D Flange Dia.	G Dia. Over Ball Race	Screw Size	Max. Torque @ 0° ozf in.
Fig. 1										
S57PY5-DUT0306	3/16	.0938	3/16	3/8	3/4	1-1/2	—	.31	Δ	16
S57PY5-DUT0406	3/16	.1250	3/16	3/8	3/4	1-1/2	—	.31	Δ	16
S57PY5-DUT0609	9/32	.1875	9/32	9/16	15/16	2-1/16	—	.41	Δ	64
S57PY5-DUT0812	3/8	.2500	3/8	3/4	1-1/4	2-3/4	—	.56	Δ	256
Fig. 2										
S57PY4-DFUT0312	3/8	.1875	3/8	3/4	1-1/4	2-3/4	3/4	—	Δ	256
S57PY4-DFUT0415	1/2	.2500	7/16	3/4	1-5/8	3	15/16	—	Δ	320
S57PY4-DFUT0622	3/4	.3750	5/8	1	2-1/4	4-1/4	1-3/8	—	1/4-20	480
S57PY4-DFUT0830	1	.5000	7/8	1-5/16	2-1/2	5-1/8	1-7/8	—	1/4-20	\$1200

* Closed dimensions for standard 1/4 of travel.
 Δ Set screws available on special order.
 § 4800 ozf in. torque rating available on special order.

Stock Drive Products pioneered the concept of combining the exceptional qualities of selected plastic materials with different metals to create products which incorporate both.



SUPER-PLAST® designs have the following advantages:

1. Inexpensive replacement of metal components, particularly for low torque applications.
2. As vibration dampers due to the resiliency of plastics used.
3. For drives used in corrosive environments or for chemical processing equipment.
4. For drives which have to be electrically insulated.
5. For domestic appliances and other intermittent duty applications.

The SDP line of molded universal joints is a valuable extension of the above capabilities, and they are shown on the following pages:

Name	Description	Series	Page
Universal Single Joint	All Molded Metal Spider (No Insert) Metal Spider and Insert	A 5M 8-D...	7-12
		A 5T 8-D...	7-13
		A 5Z 8-D...	7-13
Universal Double Joint	All Molded Metal Spider (No Insert) Metal Spider and Insert	A 5M 8-DD...	7-12
		A 5T 8-DD...	7-14
		A 5Z 8-DD...	7-14
Universal Joint With Molded Slide Extension	All Molded Metal Spider (No Insert) Metal Spider and Insert	A 5M 8-SE...	7-15
		A 5T 8-SE...	7-16, 7-17
		A 5Z 8-SE...	7-16, 7-17
Universal Joint With Brass Slide Extension	Metal Spider and Insert	A 5Z 8-SEB...	7-18

The above products are available from stock in standard configurations as presented in the catalog pages. They can also be manufactured to special requirements, with partial modification of existing tools. These "specials" can consist of:

- a) Bores molded to accommodate square, "D" shape or hexagonal shafts.
- b) Shafts molded into the components themselves.
- c) Zero backlash or components with built-in backlash.
- d) Gears, pulleys or other components molded or assembled to couplings or universal joints.

Please consult SDP Application Engineering for further details.

MOLDED UNIVERSAL JOINTS



WITH MOLDED SLIDE EXTENSION
ECONOMY SERIES

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> MATERIAL:

Body & Spider - Molded Acetal

> MAX. OPERATING TEMPERATURE:

180°F

> SPECIFICATIONS:

Max. Angular Displacement: 90°

*Max. Recommended Extension: 3/4

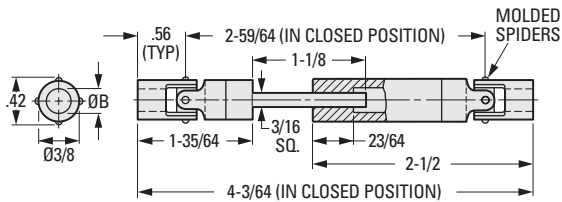


Fig. 1

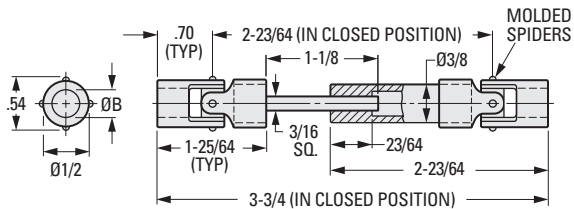


Fig. 2

Catalog Number	B Bore + .000 - .002	Bore Depth (Typ)	Max. Recommended Torque lbf in.	
			Closed	Open*
Fig. 1				
A 5M 8-SE306	3/16	.34	6	5
A 5M 8-SE308	1/4	.34	6	5
Fig. 2				
A 5M 8-SE406	3/16	.42	12	10
A 5M 8-SE408	1/4	.42	12	10
A 5M 8-SE410	5/16	.42	12	10

WITH BRASS SLIDE EXTENSION
ELECTRICALLY INSULATING

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› MATERIAL:

Body - Molded Acetal
Spider & Insert - Nickel Plated Brass
Tube - Brass

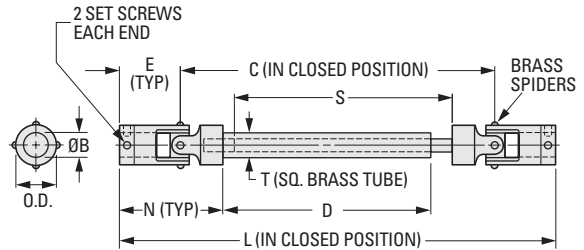
› MAX. OPERATING TEMPERATURE:

180°F

› SPECIFICATIONS:

Max. Angular Displacement: 90°
Max. Recommended Extension: D/2

Shorter or longer lengths available on special order.



INCH COMPONENT

Catalog Number	O.D.	B Bore +.001 -.000	Bore Depth (Typ)	E	F	N
A 5Z 8-SEB204	1/4	*1/8	.39	17/32	.27	29/32
A 5Z 8-SEB304	3/8	*1/8	.52	3/4	.41	1-5/16
A 5Z 8-SEB306	3/8	3/16	.52	3/4	.41	1-5/16
A 5Z 8-SEB406	1/2	3/16	.63	29/32	.54	1-39/64
A 5Z 8-SEB408	1/2	1/4	.63	29/32	.54	1-39/64
A 5Z 8-SEB508	5/8	1/4	.86	1-21/64	.68	2-3/8
A 5Z 8-SEB510	5/8	5/16	.86	1-21/64	.68	2-3/8
A 5Z 8-SEB512	5/8	3/8	.86	1-21/64	.68	2-3/8

* One set screw each end.

Catalog Number (Ref.)	Length Closed		D	S	T Square	Set Screw
	L	C				
A 5Z 8-SEB204	3-1/4	2-3/16	1-7/16	1-19/32	1/8	#4-40
A 5Z 8-SEB304	4-7/16	2-15/16	1-13/16	2-3/32	5/32	#4-40
A 5Z 8-SEB306	4-7/16	2-15/16	1-13/16	2-3/32	5/32	#4-40
A 5Z 8-SEB406	6	4-3/16	2-25/32	3-3/32	3/16	#6-32
A 5Z 8-SEB408	6	4-3/16	2-25/32	3-3/32	3/16	#6-32
A 5Z 8-SEB508	8	5-11/32	3-1/4	3-25/32	1/4	#8-32
A 5Z 8-SEB510	8	5-11/32	3-1/4	3-25/32	1/4	#8-32
A 5Z 8-SEB512	8	5-11/32	3-1/4	3-25/32	1/4	#8-32