

NOTES:

1 Refer to Secondary Sheet for Tabulated Data.

2 ϕ A1 and ϕ A2 shafts may near butt except:

When any Bore $> \phi .625$ the component shaft MAX penetration is .320.
or
when both Bores $> \phi .625$ the component shaft MAX penetration is .320 & the MIN shaft end to shaft end is .610.

3 Hubs and HELI-CAL FLEXURE are made from a single piece of material.

4 Set Screw attachment, hex socket, cup point set screw furnished: both hubs.

5 Backlash: None. No lubrication required.

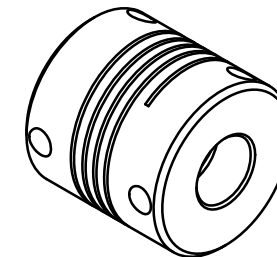
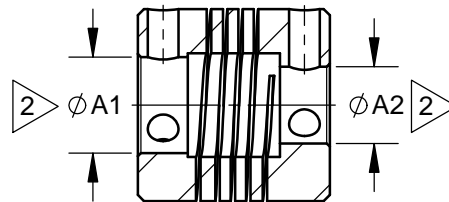
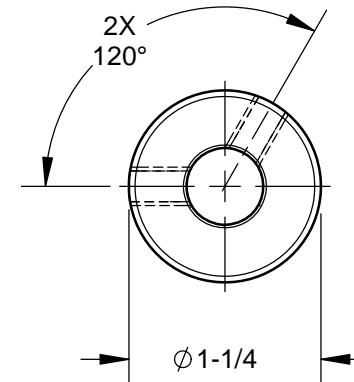
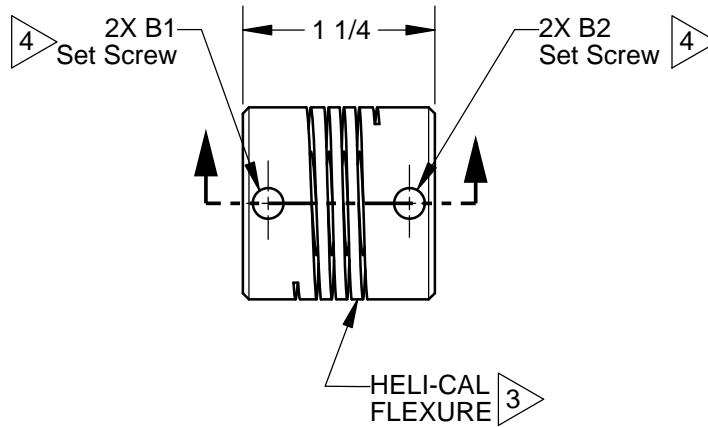
6 Permitted axial motion from free length: $\pm .010$

7 RPM: Up to 10,000 depending on application

8 Working torque ratings are based upon continuous duty with noted misalignments applied separately and may be increased with improved alignment:
Refer to Tabulated Data

9 Permissible shaft misalignment: Angular, up to 5°
Offset, up to .010 (FIM, .020)

10 Weight based on AR125-20-16



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11-26-14	---	ECR#14102000 Added calc. weight	DCE	EK
07-25-13	---	Redrawn in Solidworks	CL	JAJ/EK
12-18-09	---	Finish was Chromic Acid Anodize; Updated GD&T	HG	JAJ
DATE	LTR	REVISION	APVR	

Unless otherwise specified all tolerances and dimensions are in inches.

Inch	Metric
X/XX \pm 1/64	X \pm 0.5mm
.XX \pm .01	X.X \pm 0.25mm
.XXX \pm .005	X.XX \pm 0.15mm
Angles $\pm 2^\circ$	

Break sharp corners .010 MAX
All surface finish 63 roughness
Do Not Scale Drawing



HELICAL
PRODUCTS COMPANY

901 West McCoy Lane
P.O. BOX 1069
SANTA MARIA, CA. 93456 U.S.A.
PHONE (805) 928-3851 FSC13201

DRAWN BY BJM	DATE 01-07-00	TITLE HELICAL FLEXIBLE SHAFT COUPLING
CHECKED BY MC	DATE 01-07-00	MATL 7075-T6 Aluminum Alloy
APPRVD BY DH	DATE 01-07-00	FINISH Anodize IAW HPS1000
WEIGHT (calculated) 45 g		DRAWING NUMBER AR125
SHEET 1 of 2		REV

TABULATED DATA

UOS all dimensions are in inches.
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MATERIAL: 7075-T6 Aluminum Alloy

FINISH: Anodize IAW HPS1000

Drawing Number

AR125

REV

DO NOT SCALE DRAWING

SHT 2 of 2

ITEM DESCRIPTION (Part Number)	BORE SIZES		SET SCREW		TORQUES (lbin)		
	TOLERANCE +0.002in or +0.05mm -0.000in or 0		B1	B2	Momentary	Non-Reversing	Shock or Reversing
Ø A1	Ø A2						
AR125-12-8	.375in	.250in	1/4-20	1/4-20	48	24	12
AR125-12-12	.375in	.375in	1/4-20	1/4-20	48	24	12
AR125-10mm-12	10.00mm	.375in	1/4-20	1/4-20	47	24	12
AR125-16-10	.500in	.313in	1/4-20	1/4-20	39	20	10
AR125-16-12	.500in	.375in	1/4-20	1/4-20	39	20	10
AR125-16-16	.500in	.500in	1/4-20	1/4-20	39	20	10
AR125-14mm-16	14.00mm	.500in	1/4-20	1/4-20	39	20	10
AR125-15mm-12	15.00mm	.375in	1/4-20	1/4-20	32	16	8
AR125-20-10	.625in	.313in	1/4-20	1/4-20	29	15	7
AR125-20-8mm	.625in	8.00mm	1/4-20	1/4-20	29	15	7
AR125-20-12	.625in	.375in	1/4-20	1/4-20	29	15	7
AR125-20-12mm	.625in	12.00mm	1/4-20	1/4-20	29	15	7
AR125-20-16	.625in	.500in	1/4-20	1/4-20	29	15	7
AR125-20-20	.625in	.625in	1/4-20	1/4-20	29	15	7
AR125-24-10mm	.750in	10.00mm	1/4-20	1/4-20	29	15	7
AR125-24-16	.750in	.500in	1/4-20	1/4-20	29	15	7
AR125-24-20	.750in	.625in	1/4-20	1/4-20	29	15	7