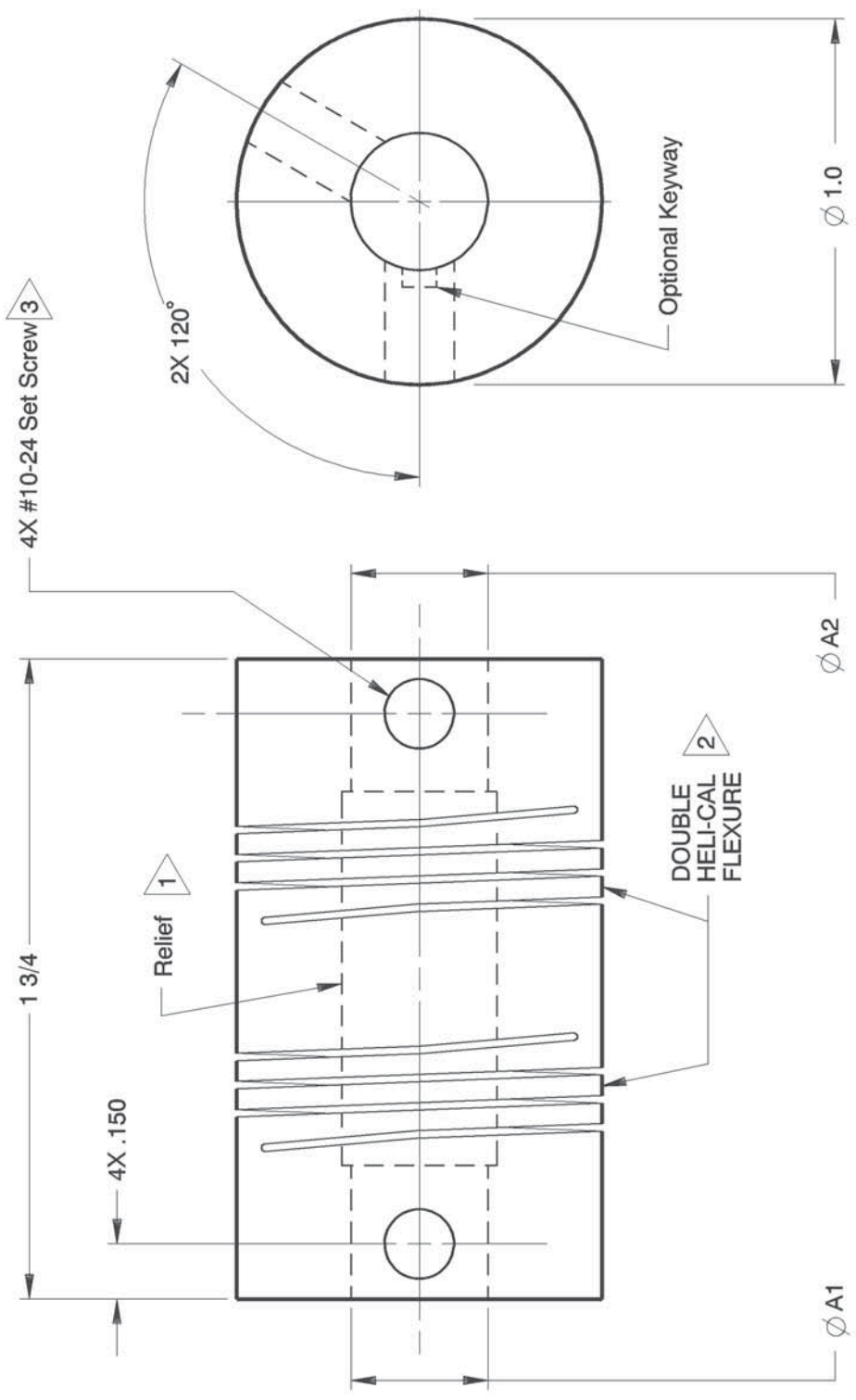


NOTES: See Tabulated Sheet

- 1 Relief permits component shafts to near butt.
- 2 Hubs and HELI-CAL FLEXURE are made from a single piece of material.
- 3 Set Screw attachment, hex. socket, cup point set screw furnished: both hubs. Set Screw size based on bore size:
 .118in thru .124in : 2-56
 .125in thru .155in : 4-40
 .156in thru .235in : 6-32
 .236in thru .630in : 10-24

- 4 Backlash: None. No lubrication required.
- 5 Permitted axial motion from free length: $\pm .010$ in
- 6 Working torque ratings are based upon continuous duty with noted misalignments applied separately and may be increased with improved alignment: See Tabulated Sheet
- 7 Permissible shaft misalignment:
 Angular, up to 5 degrees.
 Offset, up to .030in (TIR, .060in)



MCA100-12-12 SHOWN

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Finish was Chromic Acid Anodize; Updated GD&T Clerical format update/ No revision		JAJ MC CHK		TITLE: HELICAL FLEXIBLE SHAFT COUPLING MATERIAL: 7075-T6 Aluminum Alloy FINISH: Anodize per HPS1000		SCALE: 2/1 SIZE: A		DWG NO: MCA100		HELICAL PRODUCTS CO. P.O. BOX 1069 SANTA MARIA, CA. 93456 U.S.A. PHONE (805) 928-3851 FSC13201	

ADDITION DATE	PART NUMBER	BORE TOLERANCES		TORQUES (lbin)			TORSIONAL FLEXIBILITY	MASS MOMENT OF INERTIA	COMMENTS
		+002in -000in	+05mm -00mm	Non-reversing	Shock or Reversing	Momentary			
09 Mar 88	MCA100-4mm-4mm	4.00mm	4.00mm	14	7	28			A1 A2
09 Mar 88	MCA100-6-6	.188in	.188in	14	7	28			
	MCA100-5.9mm-5.9mm	5.90mm	5.90mm	14	7	28			
09 Mar 88	MCA100-8-8	.250in	.250in	14	7	28			
06 Oct 88	MCA100-10-6	.313in	.188in	12	6	24			
09 Mar 88	MCA100-10-5.08mm	.313in	5.08mm	12	6	24			
09 Mar 88	MCA100-10-8	.313in	.250in	12	6	24			
09 Mar 88	MCA100-10-10	.313in	.313in	12	6	24			
06 Dec 07	MCA100-8mm-8mm	8.00mm	8.00mm	12	6	24			
13 Aug 08	MCA100-9mm-6mm	9.00mm	6.00mm	11	5	22			
	MCA100-12-4.58mm	.375in	4.58mm	10	5	20			
29 Jun 88	MCA100-12-6	.375in	.188in	10	5	20			
16 Jan 91	MCA100-12-6mm	.375in	6.00mm	10	5	20			
09 Mar 88	MCA100-12-8	.375in	.250in	10	5	20			
09 Mar 88	MCA100-12-10	.375in	.313in	10	5	20			
	MCA100-12-8mm	.375in	8.00mm	10	5	20			
09 Mar 88	MCA100-12-12	.375in	.375in	10	5	20			
09 Mar 88	MCA100-12K1-12K1	.375in	.375in	10	5	20			.094/.096in.094/.096in
20 Oct 88	MCA100-10mm-6mm	10.00mm	6.00mm	10	5	20			
20 Oct 88	MCA100-10mm-8	10.00mm	.250in	10	5	20			
29 Jun 88	MCA100-10mm-12	10.00mm	.375in	10	5	20			
09 Mar 88	MCA100-10mm-10mm	10.00mm	10.00mm	10	5	20			
18 Sep 90	MCA100-10.02mm-6mm	*10.02mm	6.00mm	10	5	20			
06 Oct 89	MCA100-11mm-4	*11.00mm	.125in	10	5	20			
06 Oct 89	MCA100-11mm-8	*11.00mm	.250in	10	5	20			
27 Nov 90	MCA100-11mm-10mm	*11.00mm	10.00mm	10	5	20			
20 Jul 05	MCA100-14-10	*.438in	.313in	10	5	20			
13 Aug 10	MCA100-12mm-10mm	*12.00mm	10.00mm	10	5	20			
	MCA100-15-8	*.500in	.250in	10	5	20			
	MCA100-15-10K1	*.500in	.313in	10	5	20			
09 Mar 88	MCA100-15-10	*.500in	.313in	10	5	20			

Keyway Width: .094/.096in.094/.096in

Keyway Width: .094/.096in

*** NOTE: Bores greater than .394in Dia: bore depth is .370in**

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ADDITIONAL BORE SIZES AVAILABLE UPON REQUEST

APPROVALS	DATE	HELICAL PRODUCTS CO.
DRAWN		P.O. BOX 1069 SANTA MARIA, CA. 93456 U.S.A
CHECKED		PHONE (805) 928-3851/FSCI3201
PRODN		TITLE HELICAL FLEXIBLE SHAFT COUPLING
ISSUED	8/15/2010 7: 53: 32 AM	TABULATED BORE SIZES
		MCA100

ADDITION DATE	PART NUMBER	BORE TOLERANCES		TORQUES (lbin)			TORSIONAL FLEXIBILITY	MASS MOMENT OF INERTIA	COMMENTS
		+0.002in or -0.000in		Non-reversing	Shock or Reversing	Momentary			
		A1 Dia	A2 Dia						
09 Mar 88	MCA100-16-12	* .500in	.375in	10	5	20			A1 A2
09 Mar 88	MCA100-16-16	* .500in	* .500in	10	5	20			
04 Jan 05	MCA100-14mm-B	*14.00mm	.250in	10	5	20			
15 Jun 05	MCA100-14mm-Bmm	*14.00mm	8.00mm	10	5	20			
25 May 90	MCA100-14.7mm-11mm	*14.70mm	*11.00mm	10	5	20			
09 Mar 88	MCA100-15mm-10mm	*15.00mm	10.00mm	10	5	20			
	MCA100-20-12	* .625in	.375in	10	5	20			
	MCA100-20K4-12K1	* .625in	.375in	10	5	20			Keyway Width: .188/.190in.094/.096in
continued on next sheet									

* NOTE: Bores greater than .394in Dia: bore depth is .370in

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ADDITIONAL BORE SIZES AVAILABLE UPON REQUEST

APPROVALS	DATE	HELICAL PRODUCTS CO
DRAWN		P.O. BOX 1069 SANTA MARIA, CA. 93456 U.S.A
CHECKED		PHONE (805) 928-3851/FSCI3201
PRODN		TITLE HELICAL FLEXIBLE SHAFT COUPLING
ISSUED	8/16/2010 7: 53: 32 AM	TABULATED BORE SIZES
		MCA100

TABULATED DATA

Copyright HELICAL PRODUCTS CO

MATERIAL: 7075-T6 Aluminum Alloy

Drawing Number

MCA100

REV

FINISH: Natural

DO NOT SCALE DRAWING

SHT 4 of 4

ITEM DESCRIPTION (Part Number)	BORE SIZES		TORQUES (lbin)		KEYWAY Width	
	TOLERANCE +0.02in or +0.05mm -0.000 0 ØA1	ØA2	Momentary, Dynamic	Non- Reversing	Shock or Reversing	TOLERANCE +0.02in or +0.05mm -0.000in 0 W1 W2
MCA100-8mm-8	8.00mm	.250in	24	12	6	---
MCA100-10mm-3mm	10.00mm	3.00mm	20	10	5	---
MCA100-12K1-10K1	.375in	.313in	20	10	5	.094in
MCA100-20K4-12mmQ5	.625in	12.00mm	20	10	5	.188in
MCA100-20K4-10mmQ3	.625in	10.00mm	20	10	5	.188in
MCA100-16-10mm	.500in	10.00mm	20	10	5	---