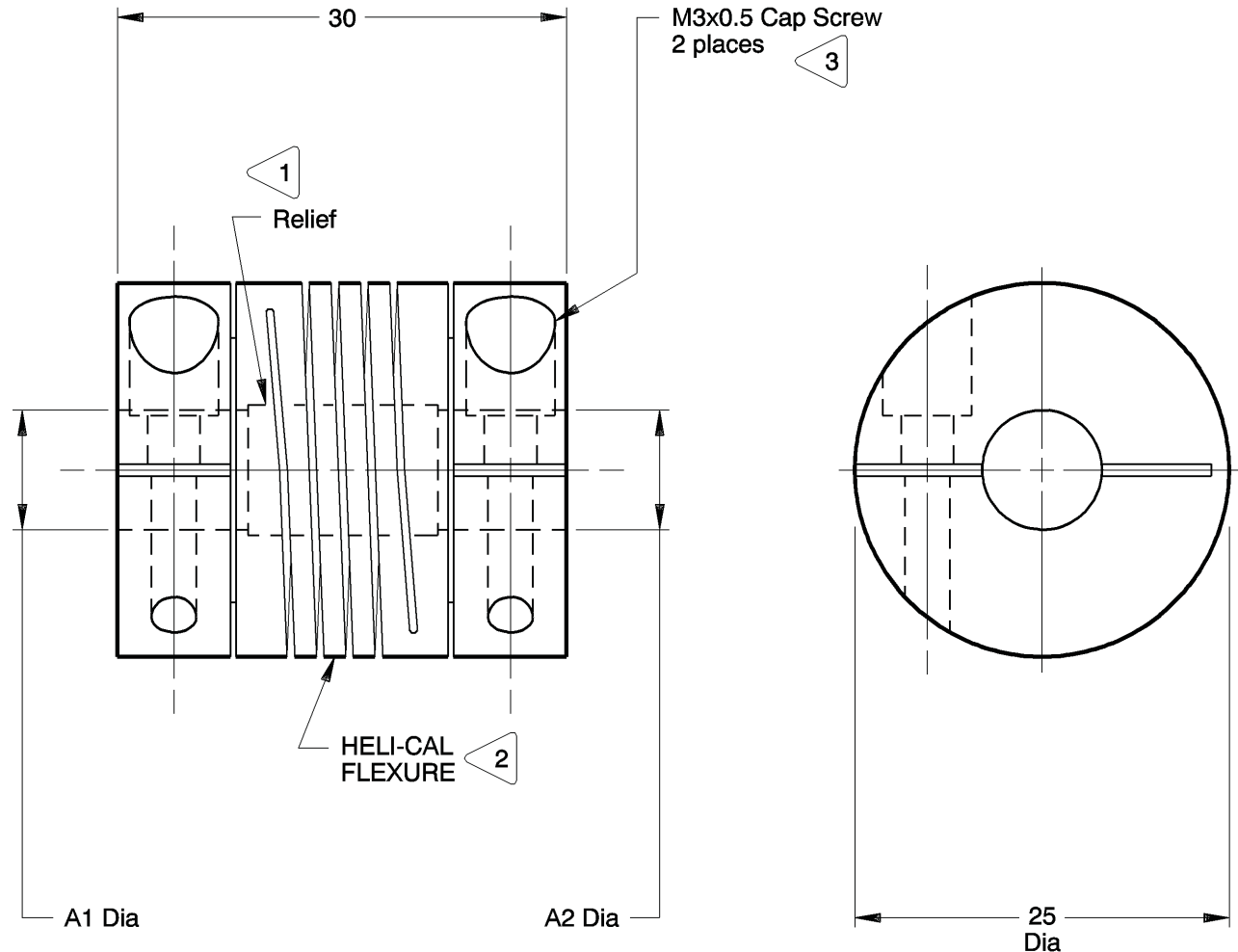


NOTES: See Tabulated Sheet

- 1 Relief permits component shafts to near butt.
- 2 Hubs and HELI-CAL FLEXURE are made from a single piece of material.
- 3 Integral Clamp attachment, hex. socket, ISO std., cap screw furnished: both hubs.
- 4 Backlash: None. No lubrication required.
- 5 Permitted axial motion from free length: $\pm 0.25\text{mm}$.
- 6 RPM: Up to 10,000, depending upon application.
- 7 Working torque ratings are based upon continuous duty with noted misalignments applied separately and may be increased with improved alignment:
See Tabulated Sheet
- 8 Permissible shaft misalignment:
Angular, up to 5 degrees.
Offset, up to 0.25mm.
(TIR, 0.50mm.)
- 9 Part will have a 28.46mm Clearance Diameter on both ends when any bore is over 10.88mm thru 14.56mm.



W7C25-8mm-8mm SHOWN

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DO NOT SCALE DRAWING.

Unless otherwise noted dimensions in millimeters.

Tolerances are:
Decimals: X $\pm .5\text{mm}$
 X.X $\pm .25\text{mm}$
 X.XX $\pm .15\text{mm}$
Angles: ± 2 degrees
Break sharp corners .25mm max.

APPROVALS	DATE	<p>HELICAL PRODUCTS CO. 901 W. McCOY LANE, SANTA MARIA, CA 93455 U.S.A PHONE (805) 928-3851 FSC13201</p>	
DRAWN MM	8-9-78		
CHECKED GLB	8-9-78		
PRODN APA	8-9-78		
ISSUED		TITLE	HELICAL FLEXIBLE SHAFT COUPLING
WEIGHT 97g (calc)		MATERIAL	17-4PH CRES HT
SCALE 2/1	SIZE A	FINISH	Natural
		DWG NO	W7C25

9-14-98		Clerical format update/ No revision	BJM	MC
DATE	LTR	REVISION	CHK	

ADDITION DATE	PART NUMBER	BORE TOLERANCES		TORQUES (Nm)			TORSIONAL FLEXIBILITY deg/Nm	MASS MOMENT OF INERTIA	COMMENTS	A1	A2
		+.002in -.000in	or +.05mm -.00mm	Non-reversing	Shock or Reversing	Momentary					
		A1 Dia	A2 Dia								
09 Mar 88	W7C25-4mm-4mm	4.00mm	4.00mm	3.0	1.5	5.9					
09 Mar 88	W7C25-5mm-5mm	5.00mm	5.00mm	3.0	1.5	5.9					
	W7C25-6mm-4mm	6.00mm	4.00mm	2.9	1.4	5.7					
	W7C25-6mm-5mm	6.00mm	5.00mm	2.9	1.4	5.7					
04 Mar 11	W7C25-6mm-5.75mm	6.00mm	5.75mm	2.9	1.4	5.7					
09 Mar 88	W7C25-6mm-6mm	6.00mm	6.00mm	2.9	1.4	5.7					
	W7C25-6.3mm-6.3mm	6.30mm	6.30mm	2.8	1.4	5.6					
03 May 88	W7C25-8-6	.250in	.188in	2.8	1.4	5.6					
09 Mar 88	W7C25-8-5mm	.250in	5.00mm	2.8	1.4	5.6					
09 Mar 88	W7C25-8-6mm	.250in	6.00mm	2.8	1.4	5.6					
09 Mar 88	W7C25-8-8	.250in	.250in	2.8	1.4	5.6					
17 Aug 90	W7C25-8-8mm	.250in	8.00mm	2.6	1.3	5.1					
17 Aug 90	W7C25-8-10mm	.250in	10.00mm	2.2	1.1	4.3					
24 Feb 89	W7C25-8-12mm	.250in	*12.00mm	2.2	1.1	4.3		Clearance Diam.:	28.46mm		
03 May 88	W7C25-7mm-5mm	7.00mm	5.00mm	2.8	1.4	5.5					
09 Mar 88	W7C25-7mm-6mm	7.00mm	6.00mm	2.8	1.4	5.5					
09 Mar 88	W7C25-7mm-8	7.00mm	.250in	2.8	1.4	5.5					
09 Mar 88	W7C25-7mm-7mm	7.00mm	7.00mm	2.8	1.4	5.5					
09 Mar 88	W7C25-7mm-8mm	7.00mm	8.00mm	2.6	1.3	5.1					
23 Dec 08	W7C25-9-8	.282in	.250in	2.7	1.4	5.4					
06 Feb 90	W7C25-7.9mm-7.9mm	7.90mm	7.90mm	2.6	1.3	5.2					
22 May 00	W7C25-10-6	.313in	.188in	2.6	1.3	5.1					
	W7C25-10-6mm	.313in	6.00mm	2.6	1.3	5.1					
	W7C25-10-8	.313in	.250in	2.6	1.3	5.1					
03 May 89	W7C25-10-10	.313in	.313in	2.6	1.3	5.1					
03 May 88	W7C25-8mm-3mm	8.00mm	3.00mm	2.6	1.3	5.1					

* NOTE: Bores greater than 10.00mmDia: bore depth is 9.70mm

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ADDITIONAL BORE SIZES AVAILABLE UPON REQUEST

APPROVALS	DATE	HELICAL PRODUCTS CO P.O. BOX 1069 SANTA MARIA, CA. 93456 U.S.A PHONE (805) 928-3851 FSCI3201
DRAWN		
CHECKED		TITLE HELICAL FLEXIBLE SHAFT COUPLING
PRODN		TABULATED BORE SIZES
ISSUED	7/25/2011 7:27:14 AM	DWG NO W7C25

ADDITION DATE	PART NUMBER	BORE TOLERANCES		TORQUES (Nm)			TORSIONAL FLEXIBILITY deg/Nm	MASS MOMENT OF INERTIA	COMMENTS	A1	A2
		+.002in -.000in	or +.05mm -.00mm	Non-reversing	Shock or Reversing	Momentary					
11 Jul 03	W7C25-8mm-4mm	8.00mm	4.00mm	2.6	1.3	5.1					
	W7C25-8mm-6	8.00mm	.188in	2.6	1.3	5.1					
09 Mar 88	W7C25-8mm-5mm	8.00mm	5.00mm	2.6	1.3	5.1					
09 Mar 88	W7C25-8mm-6mm	8.00mm	6.00mm	2.6	1.3	5.1					
25 Oct 90	W7C25-8mm-8	8.00mm	.250in	2.6	1.3	5.1					
09 Mar 88	W7C25-8mm-7mm	8.00mm	7.00mm	2.6	1.3	5.1					
02 Jul 90	W7C25-8mm-10	8.00mm	.313in	2.6	1.3	5.1					
09 Mar 88	W7C25-8mm-8mm	8.00mm	8.00mm	2.6	1.3	5.1					
19 Apr 89	W7C25-11-6mm	.344in	6.00mm	2.4	1.2	4.8					
13 Aug 07	W7C25-9mm-6	9.00mm	.188in	2.4	1.2	4.7					
08 Jun 90	W7C25-9mm-5mm	9.00mm	5.00mm	2.4	1.2	4.7					
09 Mar 88	W7C25-9mm-6mm	9.00mm	6.00mm	2.4	1.2	4.7					
09 Mar 88	W7C25-9mm-8	9.00mm	.250in	2.4	1.2	4.7					
09 Mar 88	W7C25-9mm-7mm	9.00mm	7.00mm	2.4	1.2	4.7					
03 May 88	W7C25-9mm-8mm	9.00mm	8.00mm	2.4	1.2	4.7					
09 Mar 88	W7C25-9mm-9mm	9.00mm	9.00mm	2.4	1.2	4.7					
	W7C25-9.25mm-9.25mm	9.25mm	9.25mm	2.3	1.2	4.6					
31 Jul 01	W7C25-9.5mm-6mm	9.50mm	6.00mm	2.3	1.1	4.5					
19 Mar 10	W7C25-9.5mm-8mm	9.50mm	8.00mm	2.3	1.1	4.5					
	W7C25-9.5mm-9.5mm	9.50mm	9.50mm	2.3	1.1	4.5					
05 May 00	W7C25-12-3mm	.375in	3.00mm	2.3	1.1	4.5					
	W7C25-12-6	.375in	.188in	2.3	1.1	4.5					
09 Mar 88	W7C25-12-5mm	.375in	5.00mm	2.3	1.1	4.5					
09 Mar 88	W7C25-12-6mm	.375in	6.00mm	2.3	1.1	4.5					
09 Mar 88	W7C25-12-8	.375in	.250in	2.3	1.1	4.5					
22 Oct 90	W7C25-12-7mm	.375in	7.00mm	2.3	1.1	4.5					
03 May 89	W7C25-12-10	.375in	.313in	2.3	1.1	4.5					
09 Mar 88	W7C25-12-8mm	.375in	8.00mm	2.3	1.1	4.5					
09 Mar 88	W7C25-12-9mm	.375in	9.00mm	2.3	1.1	4.5					
09 Mar 88	W7C25-12-12	.375in	.375in	2.3	1.1	4.5					
09 Mar 88	W7C25-12-10mm	.375in	10.00mm	2.2	1.1	4.3					

* NOTE: Bores greater than 10.00mm Dia: bore depth is 9.70mm

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ADDITIONAL BORE SIZES AVAILABLE UPON REQUEST

APPROVALS

DATE

HELICAL PRODUCTS CO

P.O. BOX 1069 SANTA MARIA, CA. 93456 U.S.A
PHONE (805) 928-3851 FSCI3201

DRAWN

CHECKED

PRODN

ISSUED

7/25/2011
7: 27: 14 AM

TITLE

TABULATED BORE SIZES

DWG NO

W7C25

ADDITION DATE	PART NUMBER	BORE TOLERANCES		TORQUES (Nm)			TORSIONAL FLEXIBILITY	MASS MOMENT OF INERTIA	COMMENTS	A1	A2	
		+.002in -.000in	or +.05mm -.00mm	Non-reversing	Shock or Reversing	Momentary						deg/Nm
09 Mar 88	W7C25-9.8mm-9.8mm	9.80mm	9.80mm	2.2	1.1	4.4						
	W7C25-10mm-5mm	10.00mm	5.00mm	2.2	1.1	4.3						
09 Mar 88	W7C25-10mm-6mm	10.00mm	6.00mm	2.2	1.1	4.3						
09 Mar 88	W7C25-10mm-8	10.00mm	.250in	2.2	1.1	4.3						
09 Mar 88	W7C25-10mm-6.75mm	10.00mm	6.75mm	2.2	1.1	4.3						
09 Mar 88	W7C25-10mm-7mm	10.00mm	7.00mm	2.2	1.1	4.3						
09 Mar 88	W7C25-10mm-10	10.00mm	.313in	2.2	1.1	4.3						
09 Mar 88	W7C25-10mm-8mm	10.00mm	8.00mm	2.2	1.1	4.3						
09 Mar 88	W7C25-10mm-9mm	10.00mm	9.00mm	2.2	1.1	4.3						
09 Mar 88	W7C25-10mm-9.5mm	10.00mm	9.50mm	2.2	1.1	4.3						
09 Mar 88	W7C25-10mm-12	10.00mm	.375in	2.2	1.1	4.3						
09 Mar 88	W7C25-10mm-10mm	10.00mm	10.00mm	2.2	1.1	4.3						
	W7C25-10mm-12mm	10.00mm	*12.00mm	2.2	1.1	4.3		Clearance Diam.:		28.46mm		
	W7C25-11mm-6mm	*11.00mm	6.00mm	2.2	1.1	4.3		Clearance Diam.:		28.46mm		
26 Feb 01	W7C25-11mm-8	*11.00mm	.250in	2.2	1.1	4.3		Clearance Diam.:		28.46mm		
03 May 88	W7C25-11mm-7mm	*11.00mm	7.00mm	2.2	1.1	4.3		Clearance Diam.:		28.46mm		
29 Nov 01	W7C25-11mm-8mm	*11.00mm	8.00mm	2.2	1.1	4.3		Clearance Diam.:		28.46mm		
	W7C25-11mm-10mm	*11.00mm	10.00mm	2.2	1.1	4.3		Clearance Diam.:		28.46mm		
	W7C25-11mm-11mm	*11.00mm	*11.00mm	2.2	1.1	4.3		Clearance Diam.:		28.46mm		
07 Oct 04	W7C25-11.09mm-8mm	*11.09mm	8.00mm	2.2	1.1	4.3		Clearance Diam.:		28.46mm		
	W7C25-12mm-5mm	*12.00mm	5.00mm	2.2	1.1	4.3		Clearance Diam.:		28.46mm		
03 May 88	W7C25-12mm-6mm	*12.00mm	6.00mm	2.2	1.1	4.3		Clearance Diam.:		28.46mm		
	W7C25-12mm-8	*12.00mm	.250in	2.2	1.1	4.3		Clearance Diam.:		28.46mm		
	W7C25-12mm-8mm	*12.00mm	8.00mm	2.2	1.1	4.3		Clearance Diam.:		28.46mm		
	W7C25-12mm-12	*12.00mm	.375in	2.2	1.1	4.3		Clearance Diam.:		28.46mm		
09 Mar 88	W7C25-12mm-10mm	*12.00mm	10.00mm	2.2	1.1	4.3		Clearance Diam.:		28.46mm		
09 Mar 88	W7C25-12mm-12mm	*12.00mm	*12.00mm	2.2	1.1	4.3		Clearance Diam.:		28.46mm		
31 Jan 01	W7C25-16-6mm	*.500in	6.00mm	2.2	1.1	4.3		Clearance Diam.:		28.46mm		
09 Mar 88	W7C25-16-12	*.500in	.375in	2.2	1.1	4.3		Clearance Diam.:		28.46mm		
04 Feb 08	W7C25-16-10mm	*.500in	10.00mm	2.2	1.1	4.3		Clearance Diam.:		28.46mm		
22 Jul 11	W7C25-13mm-5mm	*13.00mm	5.00mm	2.2	1.1	4.3		Clearance Diam.:		28.46mm		

* NOTE: Bores greater than 10.00mm Dia: bore depth is 9.70mm

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ADDITIONAL BORE SIZES AVAILABLE UPON REQUEST

APPROVALS	DATE	HELICAL PRODUCTS CO P.O. BOX 1069 SANTA MARIA, CA. 93456 U.S.A PHONE (805) 928-3851 FSCI3201
DRAWN		
CHECKED		TITLE
PRODN		HELICAL FLEXIBLE SHAFT COUPLING
ISSUED	7/25/2011 7:27:14 AM	DWG NO W7C25

Printed 7/25/2011 7:29:26 AM by larryvg

ADDITION DATE	PART NUMBER	BORE TOLERANCES		TORQUES (Nm)			TORSIONAL FLEXIBILITY deg/Nm	MASS MOMENT OF INERTIA	COMMENTS	A1	A2
		+0.002in -0.00in	or +0.05mm -0.00mm	Non-reversing	Shock or Reversing	Momentary					
22 Jul 11	W7C25-13mm-8	*13.00mm	.250in	2.2	1.1	4.3			Clearance Diam.:	28.46mm	
	W7C25-13mm-12	*13.00mm	.375in	2.2	1.1	4.3			Clearance Diam.:	28.46mm	
	W7C25-14mm-5mm	*14.00mm	5.00mm	2.2	1.1	4.3			Clearance Diam.:	28.46mm	
	W7C25-14mm-6mm	*14.00mm	6.00mm	2.2	1.1	4.3			Clearance Diam.:	28.46mm	
	W7C25-14mm-7mm	*14.00mm	7.00mm	2.2	1.1	4.3			Clearance Diam.:	28.46mm	
	W7C25-14mm-10	*14.00mm	.313in	2.2	1.1	4.3			Clearance Diam.:	28.46mm	
31 Oct 03	W7C25-14mm-8mm	*14.00mm	8.00mm	2.2	1.1	4.3			Clearance Diam.:	28.46mm	
	W7C25-14mm-10mm	*14.00mm	10.00mm	2.2	1.1	4.3			Clearance Diam.:	28.46mm	
	W7C25-14mm-16	*14.00mm	*.500in	2.2	1.1	4.3			Clearance Diam.:	28.46mm	
	W7C25-14mm-14mm	*14.00mm	*14.00mm	2.2	1.1	4.3			Clearance Diam.:	28.46mm	
	W7C25-11mm-9mm	*11.00mm	9.00mm	2.2	1.1	4.3			Clearance Diam.:	28.46mm	
	W7C25-14mm-12mm	*14.00mm	*12.00mm	2.2	1.1	4.3			Clearance Diam.:	28.46mm	

* NOTE: Bores greater than 10.00mmDia: bore depth is 9.70mm

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ADDITIONAL BORE SIZES AVAILABLE UPON REQUEST

APPROVALS	DATE	HELICAL PRODUCTS CO. P.O. BOX 1069 SANTA MARIA, CA. 93456 U.S.A PHONE (805) 928-3851 FSCI3201 HELICAL FLEXIBLE SHAFT COUPLING TABULATED BORE SIZES DWG NO W7C25
DRAWN		
CHECKED		
PRODN		
ISSUED	7/25/2011 7:27:14 AM	

Printed 7/25/2011 7:29:26 AM by Larryvg