HELICAL A and H SERIES, Special Bore Configurations

Basic Model Number		Outside Diameter		Special Bore Diameters			
				With Relief		Restricted Bore Configurations*	
Integral Clamp Attachment	Set Screw Attachment	Outside Diameter Designator	D Outside Diameter (in.)	Minimum Size in. & (mm)	Maximum Size in. & (mm)	Maximum Size in. & (mm)	Bore Depth in. & (mm)
ACR / HCR		050	½	0.090 (2.29)	0.125 (3.18)	0.236 (6.00)	0.19 (4.83)
	AR / HR			0.090 (2.29)	0.125 (3.18)	0.315 (8.00)	0.12 (3.05)
ACR / HCR		062	5/8	0.090 (2.29)	0.197 (5.00)	0.325 (8.26)	0.20 (5.08)
	AR / HR			0.090 (2.29)	0.197 (5.00)	0.375 (9.53)	0.14 (3.56)
ACR / HCR		075	¾	0.118 (3.00)	0.250 (6.35)	0.390 (9.90)	0.25 (6.35)
	AR / HR			0.118 (3.00)	0.250 (6.35)	0.512 (13.00)	0.18 (4.57)
ACR / HCR		087	7/8	0.138 (3.50)	0.315 (8.00)	0.444 (11.27)	0.31 (7.87)
	AR / HR			0.118 (3.00)	0.315 (8.00)	0.630 (16.00)	0.20 (5.08)
ACR / HCR		100	1	0.156 (3.96)	0.375 (9.53)	0.563 (14.31)	0.31 (7.87)
	AR / HR			0.156 (3.96)	0.375 (9.53)	0.630 (16.00)	0.26 (6.60)
ACR / HCR		112	1 1/8	0.188 (4.78)	0.512 (13.00)	0.684 (17.38)	0.45 (11.43)
	AR / HR			0.188 (4.78)	0.512 (13.00)	0.630 (16.00)	0.27 (6.86)
ACR / HCR		125	1¼	0.313 (7.94)	0.625 (15.88)	0.669 (17.00)	0.51 (12.95)
	AR / HR			0.313 (7.94)	0.625 (15.88)	0.750 (19.05)	0.32 (8.13)

HELICAL H SERIES, Stainless Steel, Technical Data

Basic Model Number			Dimensional Information		Standard Bore Diameters		Performance Data		Inertia	Screw Size		Seating Torque	Center Line
					(+.002in/-.000in) *Note 6*								
Integral Clamp Attachment	Set Screw Attachment	Outside Diameter Designator	D Outside Diameter (in.)	L Length (in.)	Size in.& (mm)	Bore Designator (1/32nd in.)	Momentary Dynamic Torque *Note 2* (lbin)	Torsional Rate (degree/lbin)	x.10^{-5} (lbinsec^2) *Note 7*	Integral Clamp *Note 4*	Set Screw *Note 4*	(lbin)	(in.)
HCR		050	1/2	0.75	0.094 (2.39) 0.125 (3.18)	3 4	7.5 7.0	0.36 0.48	.31	1-72		4.0	.09
	HR			0.50					0.19		2-56	1.3	.06
HCR		062	5/8	0.80	0.125 (3.18) 0.157 (3.99) 0.188 (4.78)	4 5 6	14 13 12	0.19 0.24 0.31	0.78	2-56		4.5	.10
	HR			0.62					0.58		4-40	4.3	.07
HCR		075	3/4	0.90	0.125 (3.18) 0.157 (3.99) 0.188 (4.78) 0.250 (6.35)	4 5 6 8	21 20 20 17	0.11 0.13 0.16 0.25	1.8	4-40		10	.12
	HR			0.75					1.5		6-32	8.0	.09
HCR		087	7/8	1.06	0.188 (4.78) 0.250 (6.35) 0.313 (7.95)	6 8 10*	37 34 30	0.072 0.10 0.15	4.1	6-32		19	.15
	HR			0.87					3.3		6-32	8.0	.10
HCR		100	1	1.25	0.250 (6.35) 0.313 (7.95) 0.375 (9.53)	8 10 12	52 47 42	0.062 0.086 0.12	8.3	6-32		19	.15
	HR			1.00					6.5		10-32	25	.15
HCR		112	11/8	1.5	0.250 (6.35) 0.313 (7.95) 0.375 (9.53) 0.500 (12.70)	8 10 12 16	83 78 71 55	0.035 0.045 0.061 0.12	15.6	6-32		19	.15
	HR			1.12					11.3		10-32	25	.14
HCR		125	11/4	1.62	0.375 (9.53) 0.500 (12.70) 0.625 (15.88)	12 16* 20*	94 77 57	0.041 0.071 0.130	26.0	10-32		56	.22
	HR			1.25					19.4		1/4-28	65	.16

*Refer to note 8

Notes

1. Shaft misalignments:

   Angular 5 degrees
   Parallel Offset .010 in. (.020 in. T.I.R.)
   Axial Motion ± .010 in.

2. Dynamic torque ratings are momentary values. For non-reversing applications, divide by 2. Divide by 4 for reversing applications. Should the torque ratings be marginal for your application, contact us for analysis.

3. Material: 7075-T6 aluminum alloy used for ACR / AR series.

   Finish: clear anodize

   or Material: 17-4 PH high-strength stainless steel used for HCR / HR series.

   Finish: natural

4. Metric fasteners available on request.

5. Manufacturing dimensional tolerances unless otherwise specified are:

   fraction ± 1/64
   x.xx ± .01

6. Click here for other available bore dimensions

7. Inertia is based on smallest standard bore diameter.

8. With integral clamp attachments only, this bore size requires an operating clearance diameter greater than coupling outside diameter.