## HELICAL DS SERIES, Special Bore Configurations

| Basic Model Number | Outside Diameter | | Special Bore Diameters | | | |
|---|---|---|---|---|---|---|
| | | | With Relief | | Restricted Bore Configurations* | |
| Integral Clamp Attachment | Outside Diameter Designator | D Outside Diameter (in.) | Maximum Size In. & (mm) | Maximum Size in. & (mm) | Maximum Size in. & (mm) | Bore Depth in. & (mm) |
| DSAC | **075** | ¾ | 0.188 (4.78) | 0.250 (6.35) | 0.390 (9.90) | 0.25 (6.35) |
| DSAC | **100** | 1 | 0.250 (6.35) | 0.394 (10.00) | 0.563 (14.31) | 0.38 (9.65) |
| DSAC | **125** | 1¼ | 0.313 (7.95) | 0.630 (16.00) | 0.668 (16.98) | 0.44 (11.18) |
| DSAC | **150** | 1½ | 0.375 (9.53) | 0.630 (16.00) | 0.908 (23.07) | 0.57 (14.48) |
| DSAC | **200** | 2 | 0.500 (12.70) | 0.750 (19.05) | 1.280 (32.50) | 0.68 (17.27) |

## HELICAL DS SERIES, Aluminum, Technical Data

| Basic Model Number | | Dimensional Information | | Standard Bore Diameters | | Performance Data | | Inertia | Screw Size | Seating Torque | Center Line |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Integral Clamp Attachment | Outside Diameter Designator | D Outside Diameter (in.) | L Length (in.) | (+.002in/-.000in) *Note 6* | | Momentary Dynamic Torque *Note 2* (lbin) | Torsional Rate (degree/lbin) | x.$10^{-4}$ (lbinsec$^2$) *Note 7* | Integral Clamp *Note 4* | (lbin) | (in) |
| | | | | Size in.& (mm) | Bore Designator (1/32nd in) | | | | | | |
| **DSAC** | **075** | ¾ | 1.25 | 0.188 (4.78)<br>0.250 (6.35) | 6<br>8 | 14<br>12 | 0.30<br>0.40 | 0.091 | 4-40 | 10 | .12 |
| **DSAC** | **100** | **1** | 1.50 | 0.250 (6.35)<br>0.313 (7.95)<br>0.375 (9.53) | 8<br>10<br>12 | 31<br>29<br>25 | 0.13<br>0.16<br>0.19 | 0.35 | 6-32 | 19 | .15 |
| **DSAC** | **125** | **1¼** | 1.75 | 0.313 (7.95)<br>0.375 (9.53)<br>0.500 (12.70)<br>0.625 (15.88) | 10<br>12<br>16*<br>20* | 61<br>58<br>47<br>35 | 0.062<br>0.080<br>0.12<br>0.19 | 0.98 | 10-24 | 50 | .22 |
| **DSAC** | **150** | **1½** | 2.25 | 0.375 (9.53)<br>0.500 (12.70)<br>0.625 (15.88) | 12<br>16<br>20 | 130<br>115<br>94 | 0.030<br>0.042<br>0.062 | 2.7 | 10-24 | 50 | .22 |
| **DSAC** | **200** | **2** | 2.50 | 0.500 (12.70)<br>0.625 (15.88)<br>0.750 (19.05) | 16<br>20<br>24 | 234<br>215<br>190 | 0.016<br>0.020<br>0.026 | 9.5 | 1/4–20 | 120 | .26 |

*Refer to note 8

## Notes

1. Shaft misalignments:
   Angular 3 degrees
   Parallel offset .010 in. (.020 in. T.I.R.)
   Axial Motion ± .008 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.
   Finish: clear anodize.

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. This bore size requires an operating clearance diameter greater than coupling outside diameter.