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| Size | GSA dimensions | | | | | | F _o | F _A ' | Transmissible torques or axial forces | | Weight WT |
|----------|----------------|----------------|--------|----------------|-------|-------|----------------|------------------|---------------------------------------|-----------------|--------------|
| | d | C ₁ | D | C ₂ | L | I | | | T | F _{ax} | |
| | Inch | | | | | | | | psi | lb-in | |
| GSA-250 | 0.2500 | | 0.3750 | | 0.126 | 0.094 | 580 | 450 | 14 | 112 | 0.76 |
| GSA-312 | 0.3125 | +0 | 0.4375 | -0 | 0.143 | 0.112 | 686 | 670 | 26 | 166 | 1.04 |
| GSA-375 | 0.3750 | -0.0005 | 0.5000 | +0.0005 | 0.160 | 0.128 | 673 | 920 | 43 | 229 | 1.35 |
| GSA-437 | 0.4375 | | 0.5937 | | 0.176 | 0.143 | 796 | 1196 | 65 | 297 | 2.20 |
| GSA-500 | 0.5000 | | 0.6562 | | 0.193 | 0.158 | 944 | 1512 | 94 | 376 | 2.69 |
| GSA-562 | 0.5625 | | 0.7500 | -0 | 0.210 | 0.174 | 1259 | 1872 | 132 | 469 | 3.97 |
| GSA-625 | 0.6250 | | 0.8125 | +0.001 | 0.226 | 0.187 | 1231 | 2237 | 175 | 560 | 4.69 |
| GSA-687 | 0.6875 | | 0.8750 | | 0.243 | 0.203 | 1414 | 2670 | 230 | 669 | 5.47 |
| GSA-750 | 0.7500 | | 0.9375 | | 0.260 | 0.219 | 1413 | 3145 | 295 | 787 | 6.33 |
| GSA-812 | 0.8125 | +0 | 1.0312 | -0 | 0.276 | 0.234 | 1617 | 3637 | 370 | 911 | 8.56 |
| GSA-875 | 0.8750 | -0.001 | 1.0937 | -0 | 0.293 | 0.250 | 1611 | 4188 | 458 | 1047 | 10.14 |
| GSA-937 | 0.9375 | | 1.1875 | +0.0015 | 0.310 | 0.267 | 2087 | 4790 | 561 | 1197 | 12.36 |
| GSA-1000 | 1.0000 | | 1.2500 | | 0.326 | 0.284 | 2090 | 5437 | 680 | 1360 | 14.05 |
| GSA-1125 | 1.1250 | +0 | 1.4060 | | 0.359 | 0.312 | 2220 | 6620 | 840 | 1493 | 19.55 |
| GSA-1250 | 1.2500 | -0.0015 | 1.5310 | | 0.393 | 0.344 | 2240 | 8105 | 1140 | 1824 | 23.54 |
| GSA-1375 | 1.3750 | | 1.6870 | | 0.426 | 0.376 | 2745 | 9750 | 1510 | 2196 | 31.22 |
| GSA-1500 | 1.5000 | | 1.8120 | -0 | 0.459 | 0.407 | 3030 | 11510 | 1940 | 2587 | 36.38 |
| GSA-1625 | 1.6250 | +0 | 1.9680 | +0.002 | 0.492 | 0.437 | 3295 | 13390 | 2450 | 3015 | 46.43 |
| GSA-1750 | 1.7500 | -0.002 | 2.1250 | | 0.526 | 0.469 | 3585 | 15475 | 3045 | 3480 | 58.53 |
| GSA-1875 | 1.8750 | | 2.2500 | | 0.559 | 0.500 | 3595 | 17675 | 3730 | 3979 | 66.22 |
| GSA-2000 | 2.0000 | | 2.4060 | | 0.592 | 0.528 | 5365 | 19910 | 4480 | 4480 | 81.09 |
| GSA-2250 | 2.2500 | | 2.6560 | | 0.592 | 0.528 | 4795 | 22400 | 5670 | 5040 | 90.30 |
| GSA-2437 | 2.4375 | | 2.8430 | | 0.592 | 0.528 | 4430 | 24260 | 6655 | 5461 | 97.07 |
| GSA-2500 | 2.5000 | +0 | 2.9060 | -0 | 0.592 | 0.528 | 4330 | 24885 | 7000 | 5600 | 99.50 |
| GSA-2687 | 2.6875 | -0.003 | 3.0930 | +0.003 | 0.592 | 0.528 | 4035 | 26750 | 8090 | 6020 | 106.26 |
| GSA-2750 | 2.7500 | | 3.1560 | | 0.592 | 0.528 | 3950 | 27370 | 8470 | 6160 | 108.70 |
| GSA-3000 | 3.0000 | | 3.4060 | | 0.592 | 0.528 | 3890 | 29860 | 10080 | 6720 | 117.90 |

* Stainless steel available upon request.

* Delivery on request; other sizes stocked. Contact Ringfeder Corporation for additional sizes and information.

■ Selection Guide

1. Determine the shaft diameter to be used and the maximum torque (T) to be transmitted.

$$T = \frac{63,000 \text{ (lb-in) x HP}}{\text{RPM}}$$

2. Select a locking element from the specification table for the shaft diameter. Verify that the transmissible torque (T) for the element meets the torque requirement.

Note: Required peak torque should never exceed specified transmissible torque (T). Higher torque capacities can be obtained by increasing the locking force.

3. Determine the required locking force (F_A'). A pre-load (F_O) is required to bridge the clearance for the specified fits. The total required locking force is F_A' = F_O + F_A'. The locking force is normally obtained by using one or more screws and a clamp plate.

4. Refer to screw tables on page 40 to determine the number, size and grade of screws needed for the required locking force and individual screw clamp load.

$$\text{Clamp load/screw} = \frac{\text{required locking force (F}_{A}'\text{) or F}_{A}'\text{'}}{\text{number of screws (z)}}$$

Explanations to tables

d, D, L, l = Basic dimensions, Locking Elements not tightened

C_1 = shaft tolerances

C_b = hub bore tolerances

C_2 = bore tolerances

A_t = effective bearing surface $A_t = \pi \cdot d \cdot l$

X = travel distance for 1,2,3 or 4 Locking Elements. This value includes a safety allowance to ensure that the thrust flange will not contact the face of the hub or shaft. Any reduction of this value could cause a block and the transmission values of the connection would not be achieved.

T = transmissible torque

F_{ax} = axial forces

T and F_{ax} refer to a pressure between the Locking Element and shaft of 14500 psi .

When solid Locking Elements the required total clamping force F_A is obtained by:

$$F_A = F_{A'} + F_O$$

$F_{A'}$ = Screw number x Fv, see screw table page 40

F_O = approximate clamping force required to bridge the clearances where the tolerances given in the table are fully exploited during manufacture, not applicable if slit Locking Elements are used.

d_1 = clamp plate bore

D_1 = spacer sleeve OD

T_{max} = transmissible torque by one Locking Element at a shaft contact pressure of = 47850 psi



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