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Size	GSA dimensions								Transmissible torques or axial forces		Weight
	d	C_1	D	C_2	L	l	F_o	$F_{A'}$	T	F_{ax}	WT
	Inch						psi		lb-in	lbs	lbs per 1000
GSA-250	0.2500	+0 -0.0005	0.3750	-0 +0.0005	0.126	0.094	580	450	14	112	0.76
GSA-312	0.3125		0.4375		0.143	0.112	686	670	26	166	1.04
GSA-375	0.3750		0.5000		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 -0.001	0.6562	-0 +0.001	0.193	0.158	944	1512	94	376	2.69
GSA-562	0.5625		0.7500		0.210	0.174	1259	1872	132	469	3.97
GSA-625	0.6250		0.8125		0.226	0.187	1231	2237	175	560	4.69
GSA-687	0.6875		0.8750	-0 +0.0015	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		1.0312		0.276	0.234	1617	3637	370	911	8.56
GSA-875	0.8750		1.0937		0.293	0.250	1611	4188	458	1047	10.14
GSA-937	0.9375		1.1875		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 -0.0015	1.4060		0.359	0.312	2220	6620	840	1493	19.55
GSA-1250	1.2500		1.5310		0.393	0.344	2240	8105	1140	1824	23.54
GSA-1375	1.3750	+0 -0.002	1.6870	-0 +0.002	0.426	0.376	2745	9750	1510	2196	31.22
GSA-1500	1.5000		1.8120		0.459	0.407	3030	11510	1940	2587	36.38
GSA-1625	1.6250		1.9680		0.492	0.437	3295	13390	2450	3015	46.43
GSA-1750	1.7500		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	+0 -0.003	2.4060	-0 +0.003	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		2.9060		0.592	0.528	4330	24885	7000	5600	99.50
GSA-2687	2.6875		3.0930		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.

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

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 capacitites 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.

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

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

Weitere technische Hinweise befinden sich im jeweiligen Katalog.

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