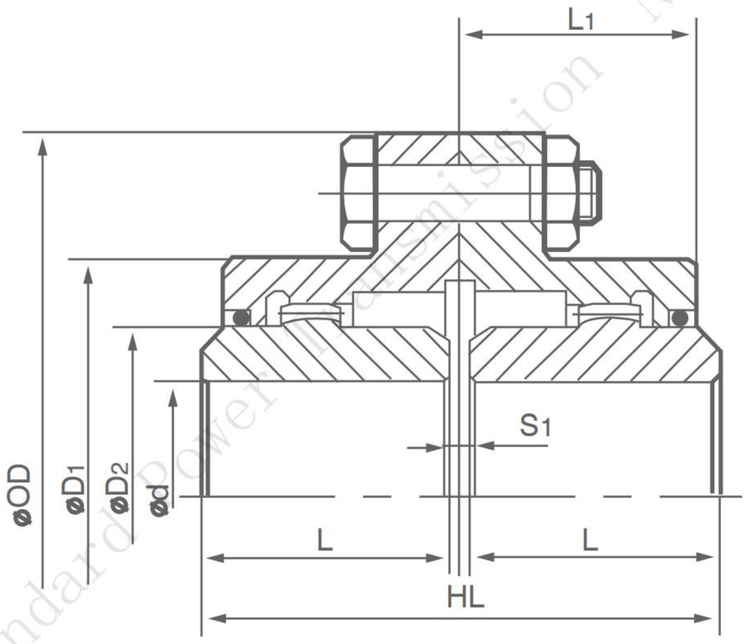
NSPT GRL-Couplings

NSPT Standard



Characteristics:

- Special design with teeth connection Longer lifetime due to the larger contact surface receiving the force
- Best torque transmitting capability per unit area and advantage of anti-bending feature
- Using steel alloy for anti-corrosion and anti-overheating features

Special Notice

GRL-coupling should be dynamically balanced according to the degree Q6.3 when rotational speed reaches 1/2 of its working limit.

NSPT GRL-Couplings

Catalog	Fundametal Dimensions							Bore		Max Torque (In-Lb)	Max Revolution (Lrpm)	Max b (In)	Wt Lbs
	OD	HL	D1	D2	L	S1	L1	Min	Max				
GRL-100	4 9/16	3 1/2	3 1/8	2 1/4	1 11/16	1/8	1 21/32	9/16	1 1/2	7523	6000	0.055	7.8
GRL-150	6	4	3 15/16	3 1/8	1 15/16	1/8	1 29/32	3/4	2 1/8	15045	5500	0.060	15.7
GRL-200	7	5	4 15/16	3 7/8	2 7/16	1/8	2 11/32	1	2 3/4	28763	5000	0.085	25.8
GRL-250	8 3/8	6 1/4	5 7/8	4 5/8	3 1/32	3/16	2 11/16	1 3/8	3 3/8	53100	4400	0.105	43.3
GRL-300	9 7/16	7 3/8	6 7/8	5 1/2	3 19/32	3/16	3 9/32	1 3/4	4	88500	4000	0.115	63.9
GRL-350	11	8 1/2	7 29/32	6 1/2	4 1/8	1/4	3 27/32	2 1/8	4 5/8	141600	3500	0.130	105
GRL-400	12 1/2	9 3/4	9 1/4	7 3/8	4 3/4	1/4	4 7/32	2 9/16	5 1/2	208860	3000	0.150	150
GRL-450	13 5/8	10 15/16	10 3/8	8 3/8	5 5/16	5/16	4 23/32	3 1/8	6 1/4	287625	2700	0.175	195
GRL-500	15 5/16	12 1/8	11 9/16	9 5/16	6 29/32	5/16	5 5/32	3 1/2	7	420375	2500	0.196	286
GRL-550	16 3/4	14 1/8	12 13/16	10 3/8	6 29/32	5/16	6 15/16	4	7 7/8	592950	2200	0.220	385
GRL-600	18 1/8	15 1/4	14	11 7/16	7 15/32	5/16	6 21/32	4 3/4	8 5/8	796500	2100	0.246	462
GRL-700	20 7/8	17 3/4	15 3/4	13 1/8	8 11/16	3/8	7 11/16	5 7/8	9 3/4	1106250	2000	0.275	684

- **Max. Torque of GRL78-GRL295 and their max. parallel tolerance should be based on a=1/2" and max. bore diameters.**
- **Max. Torque of GRL325-GRL520 and their max. parallel tolerance should be based on a=3/4" and max. bore diameters.**



GRL - 200

- 200 — Maximum outside diameter
- GRL — GRL-Couplings

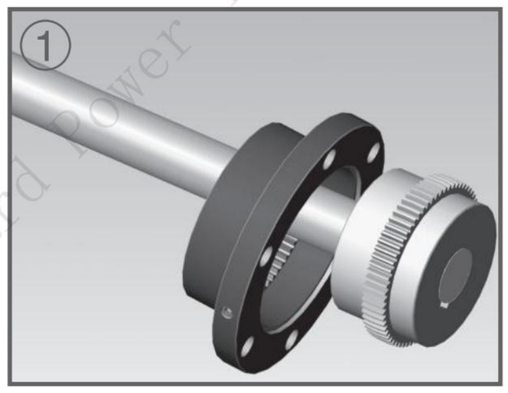
NSPT GRL-Coupling

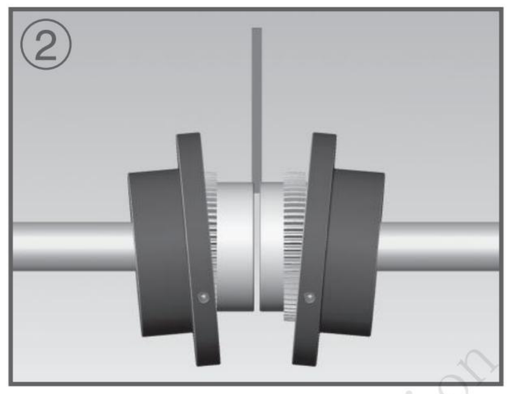
NSPT Standard

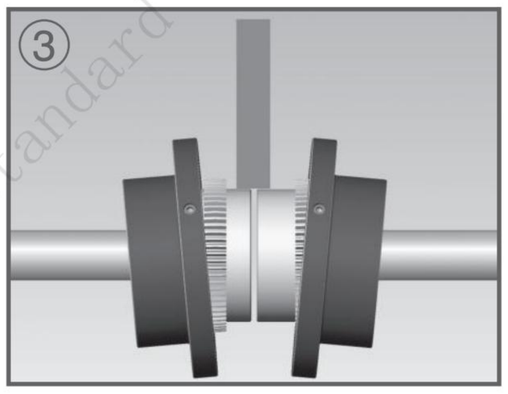
Instruction for Installation:

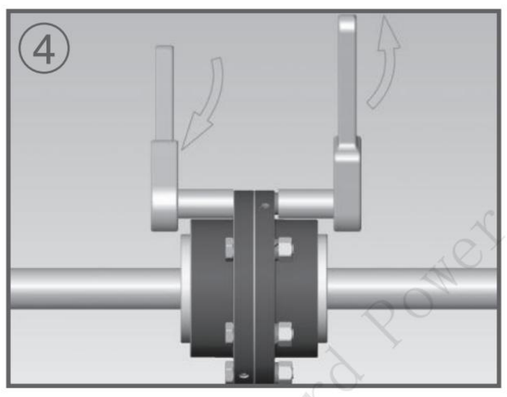


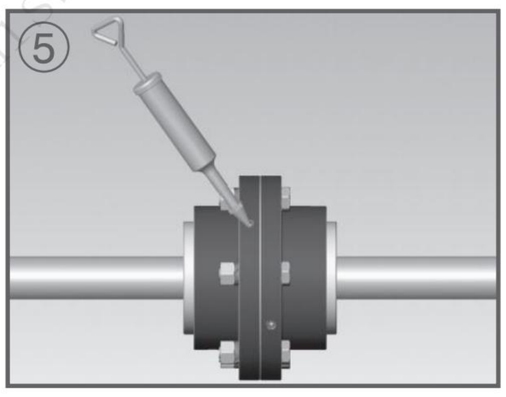
1. Clean all parts. Grease the crowned gear teeth and 0-Ring. Put O-Ring onto the shafts.
2. Place the flanged sleeves on the shafts and mount the hubs.
3. Using a spacer bar to make a gap between the hubs equal to the normal gap as specified.
4. Align the shaft with a straight bar, check every 90 degree to make sure no exceeding of the offest limit with a gauge.
5. Insert gasket between the flanged sleeves; fasten the bolts and position the lube holes at the maximum degree.
6. Fill up the grease until overflowing at the opened opposite hole.







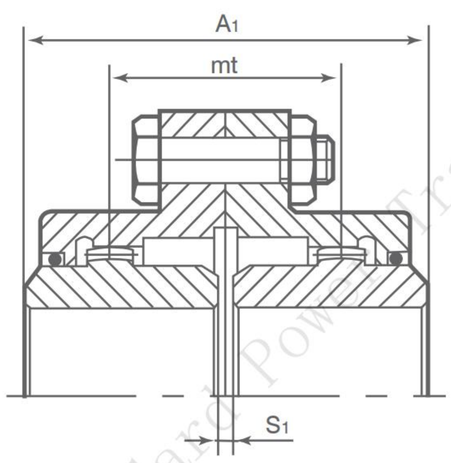




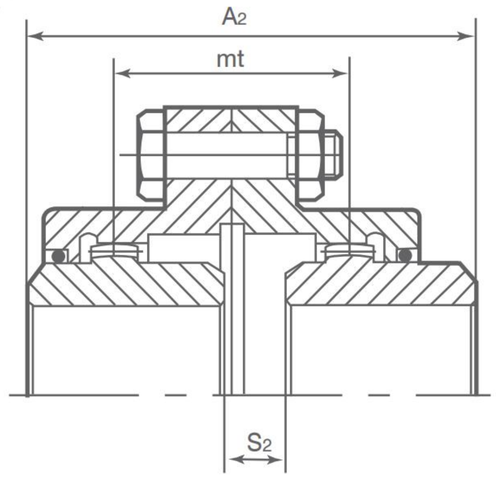
NSPT GRL-Coupling

NSPT Standard

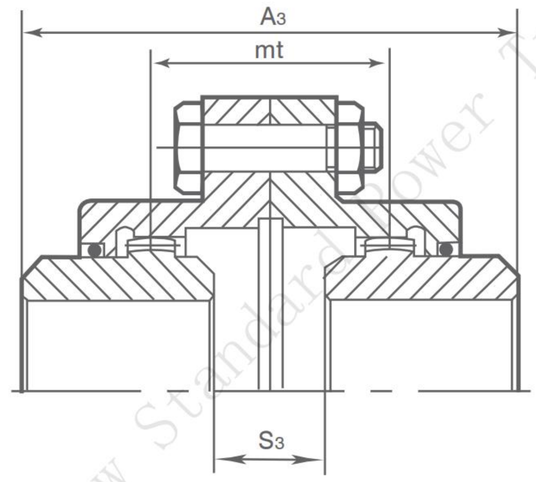
Installation for GRL-Coupling



Type 1



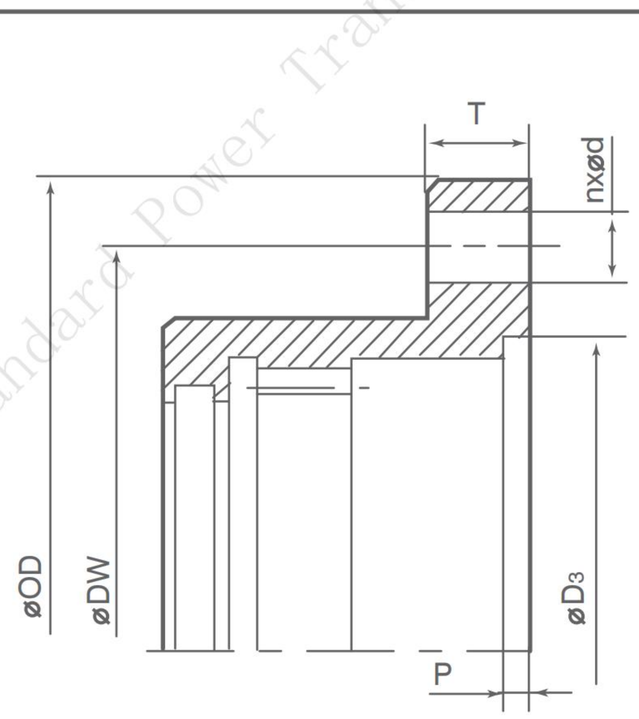
Type 2



Type 3

Catalog	mt	A1	A2	A3	S1	S2	S3
GRL-100	1 31/32	3 1/2	3 21/32	3 27/32	1/8	9/32	7/16
GRL-150	2 5/16	4 1/16	4 9/32	4 17/32	1/8	11/32	19/32
GRL-200	3 3/32	5	5 9/16	6 1/8	3/16	21/32	1 7/32
GRL-250	3 11/16	6 3/16	6 17/32	7 1/8	3/16	21/32	1 5/32
GRL-300	4 5/16	7 9/32	7 27/32	8 3/8	3/16	3/4	1 9/32
GRL-350	5 1/32	8 1/2	9 3/16	9 27/32	1/4	7/8	1 9/16
GRL-400	5 21/32	9 11/16	10 3/8	11 1/8	1/4	15/16	1 21/32
GRL-450	6 7/16	10 15/16	11 25/32	12 9/16	5/16	1 1/8	1 31/32
GRL-500	7 3/16	12 1/8	13 1/16	14	5/16	1 1/4	2 7/32
GRL-550	8 13/32	14 1/16	15 5/16	16 17/32	5/16	1 17/32	2 3/4
GRL-600	9 5/16	15 1/4	16 3/4	18 1/4	5/16	1 13/16	3 5/16
GRL-700	10 3/8	17 11/16	19	20 5/16	3/8	1 21/32	3

Dimensions for the flange with teeth



Catalog	O.D	DW	D3	P	T	n	d
GRL-100	4 9/16	3 13/16	2 7/8	0.138	9/16	6	3/8
GRL-150	6	4 13/16	3 3/4	0.138	3/4	8	7/16
GRL-200	7	5 15/16	4 17/32	0.138	3/4	6	1/2
GRL-250	8 3/8	7 1/4	5 19/32	0.138	7/8	6	21/32
GRL-300	9 7/16	8 3/16	6 5/8	0.138	7/8	8	21/32
GRL-350	11	9 9/16	7 1/2	0.138	1 1/8	8	13/16
GRL-400	12 1/2	11	8 3/4	0.138	1 1/8	8	13/16
GRL-450	13 5/8	12	9 7/8	0.157	1 1/8	10	13/16
GRL-500	15 3/8	13 9/16	11	0.157	1 1/2	10	13/16
GRL-550	16 23/32	14 15/32	12 1/4	0.157	1 1/2	14	13/16
GRL-600	18 1/8	16	13 5/8	0.236	1 1/8	14	1
GRL-700	20 7/8	18 1/8	14 13/16	0.315	1 9/16	16	1