NSPT New Standard Power Transmission

NSPT-Couplings

Powerful Transmission
Reliable Connection



The series of NSPT-COUPLINGS have the characteristics of easy installation and good durability. They are economical and practical for most power transmission mechanisms.

NSPT-Couplings

Powerful Transmission
Reliable Connection







NSPT series of couplings are designed to be used on all kinds of power transmission machenisms. They are economical and practical with easy installation and practical with easy installation and good durability.

NSPT BL-Couplings

Finished Bore

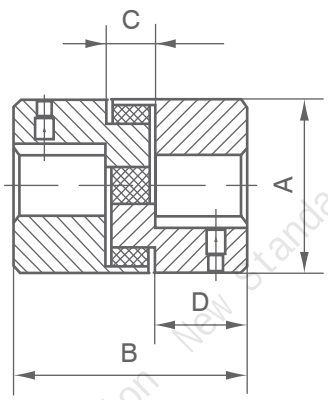


Characteristics:

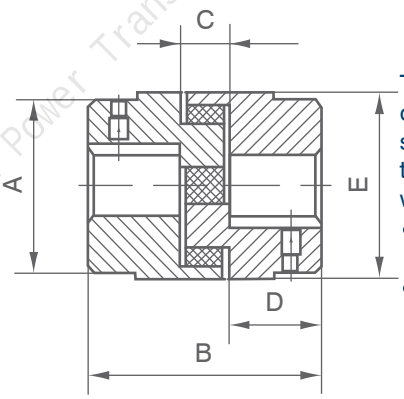
- Good Temperature and Oil Resistance
- Free of Maintenance
- Simple Structure and Easy to Install
- Individually Replaced Rubbers When They Are Worn
- Choice of Standard and/or Finished Bore Products

BL035-BL150

The couplings are made of sintered alloy with smooth surfaces and precise dimensions.



BL190-BL225



The couplings are made of GG25 or C1045. The surface is machined and treated by the following ways:

- C1045:Oxidizing or zinc plating.
- GG25: Phosphating or zinc plating.

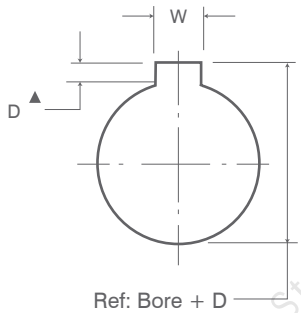
Catalog	Dimension					Wt-Lbs		Torque In.-Lbs	Maximum RPM	Bore	
	A	B	C	D	E	Min Bore	Max Bore			Min	Max
BL035	5/8	13/16	9/32	17/64	—	0.01	0.01	3.52	31000	1/8	3/8
BL050	15/64	123/32	15/32	5/8	—	0.29	0.24	25.8	18000	1/4	5/8
BL070	123/64	2	1/2	3/4	—	0.59	0.54	44.1	14000	1/4	3/4
BL075	13/4	21/8	1/2	13/16	—	1.00	0.86	88.2	11000	1/4	7/8
BL090	27/64	21/8	1/2	13/16	—	1.48	1.32	145	9000	1/4	1
BL095	27/64	21/2	1/2	1	—	1.75	1.52	189	9000	7/16	11/8
BL099	217/32	27/8	3/4	11/16	—	2.50	2.17	315	7000	7/16	13/16
BL100	217/32	31/2	3/4	13/8	—	3.42	2.92	415	7000	7/16	13/8
BL110	35/16	41/4	7/8	111/16	—	6.45	5.61	788	5000	5/8	15/8
BL150	33/4	41/2	1	13/4	—	8.95	7.73	1260	5000	5/8	17/8
BL190	4	51/4	1	21/8	41/2	8.83	7.04	1702	5000	3/4	21/8
BL225	41/4	6	1	21/2	5	12.28	9.60	2332	4000	3/4	23/8

*Keyway dimensions conform to DIN 6885, JIS B 1310-1976, UNI 6604-1969, USAS B 17.1-1967, GB 1095-1979 standards.

NSPT BL-Coupling

Finished Bore





Stock Bores	Keyseat	BL035	BL050	BL070	BL075	BL090	BL095	BL099	BL100	BL110	BL150	BL190	BL225
1/8	No Kw.	x	—	—	—	—	—	—	—	—	—	—	—
3/16	No Kw.	x	—	—	—	—	—	—	—	—	—	—	—
1/4	No Kw./No SS	—	x	x	x	x	—	—	—	—	—	—	—
1/4	No Kw.	x	x	x	x	x	—	—	—	—	—	—	—
1/4	1/8x1/16	—	—	—	x	—	—	—	—	—	—	—	—
5/16	No Kw.	x	x	x	x	—	—	—	—	—	—	—	—
3/8"	No Kw.	x	x	x	x	x	—	—	—	—	—	—	—
3/8"	3/32x3/64	—	—	—	x	x	—	—	—	—	—	—	—
3/8"	1/8x1/16	—	—	—	x	x	—	—	—	—	—	—	—
7/16	No Kw./No SS	—	—	—	—	—	x	—	—	—	—	—	—
7/16	No Kw.	—	—	x	x	x	x	x	x	—	—	—	—
7/16	3/32x3/64	—	—	—	x	x	x	x	x	—	—	—	—
7/16	1/8x1/16	—	—	—	x	x	x	x	x	—	—	—	—
1/2	No Kw./No SS	—	—	—	—	—	—	x	x	—	—	—	—
1/2	No Kw.	—	x	x	x	x	x	x	x	—	—	—	—
1/2	1/8x1/16	—	x	x	x	x	x	x	x	—	—	—	—
9/16	No Kw.	—	x	—	x	x	x	x	x	—	—	—	—
9/16	1/8x1/16	—	x	x	x	x	x	x	x	—	—	—	—
5/8	No Kw./No SS	—	—	—	—	—	—	—	x	x	x	x	x
5/8	No Kw.	—	x	—	—	—	—	—	—	x	x	—	—
5/8	5/32x5/64	—	—	—	x	x	x	x	x	x	x	—	—
5/8	3/16x3/32	—	—	x	x	x	x	x	x	x	x	—	—
11/16	3/16x3/32	—	—	x	x	x	x	x	x	x	x	—	—
3/4	No Kw.	—	—	—	—	—	—	—	—	—	—	x	x
3/4	1/8x1/16	—	—	—	x	x	x	x	x	x	x	x	—
3/4	3/16x3/32	—	—	x	x	x	x	x	x	x	x	x	x
13/16	3/16x3/32	—	—	—	x	x	—	x	x	x	x	x	x
7/8	3/16x3/32	—	—	—	x	x	x	x	x	x	x	x	x
7/8	1/4x1/8	—	—	—	—	x	x	x	x	x	x	x	x
15/16	1/4x1/8	—	—	—	—	—	x	x	x	x	x	x	x
1	3/16x3/32	—	—	—	—	x	x	x	x	x	x	x	x
1	1/4x1/8	—	—	—	—	x	x	x	x	x	x	x	x
1 1/16	1/4x1/8	—	—	—	—	—	x	x	x	x	x	x	x
1 1/8	1/4x1/8	—	—	—	—	—	x	x	x	x	x	x	x
1 3/16	1/4x1/8	—	—	—	—	—	—	x	x	x	x	x	x
1 1/4	1/4x1/8	—	—	—	—	—	—	—	x	x	x	x	x
1 1/4	5/16x3/32	—	—	—	—	—	—	—	x	x	x	x	x
1 5/16	5/16x3/32	—	—	—	—	—	—	—	x	x	x	x	—
1 3/8	5/16x5/32	—	—	—	—	—	—	—	x	x	x	x	x
1 3/8	3/8x3/16	—	—	—	—	—	—	—	—	x	x	x	x
1 7/16	3/8x3/16	—	—	—	—	—	—	—	x	x	x	x	x
1 1/2	5/16x5/32	—	—	—	—	—	—	—	—	x	x	x	x
1 1/2	3/8x3/16	—	—	—	—	—	—	—	—	x	x	x	x
1 9/16	3/8x3/16	—	—	—	—	—	—	—	—	x	x	—	x
1 5/8	3/8x3/16	—	—	—	—	—	—	—	—	x	x	x	x
1 11/16	3/8x3/16	—	—	—	—	—	—	—	—	—	x	x	x
1 3/4	3/8x3/16	—	—	—	—	—	—	—	—	—	x	x	x
1 3/4	7/16x7/32	—	—	—	—	—	—	—	—	—	x	x	x
1 13/16	1/2x1/4	—	—	—	—	—	—	—	—	—	—	x	—
1 7/8	1/2x1/4	—	—	—	—	—	—	—	—	—	x	x	x
1 15/16	1/2x1/4	—	—	—	—	—	—	—	—	—	—	x	x
2	1/2x1/4	—	—	—	—	—	—	—	—	—	—	x	x
2 1/16	1/2x1/4	—	—	—	—	—	—	—	—	—	—	x	—
2 1/8	1/2x1/4	—	—	—	—	—	—	—	—	—	—	x	x
2 3/16	1/2x1/4	—	—	—	—	—	—	—	—	—	—	—	x
2 1/4	1/2x1/4	—	—	—	—	—	—	—	—	—	—	—	x
2 3/8	5/8x5/16	—	—	—	—	—	—	—	—	—	—	—	x

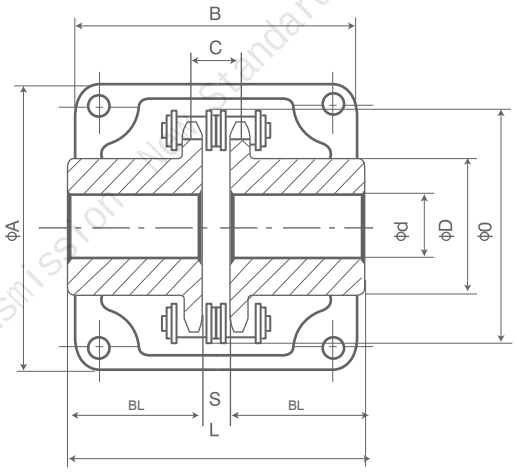
Chain Couplings KC

Chain coupling is composed of a duplex roller chain and two sprockets. The function of connection and detachment is done by the joint of chain. It has the characteristics of simplicity, high efficiency, easy-on and easy-off and nice out-looking.

It also has aluminium cover to prevent dust and protect the lubricant in order to extend the life of chain coupling.

Stock Bore





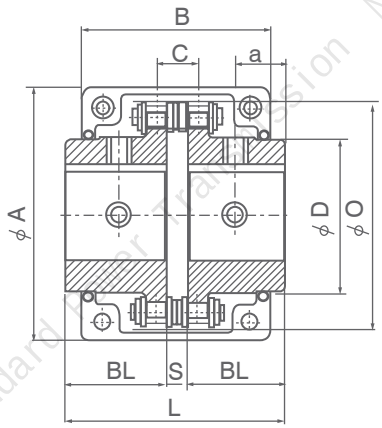
KC Chain Couplings

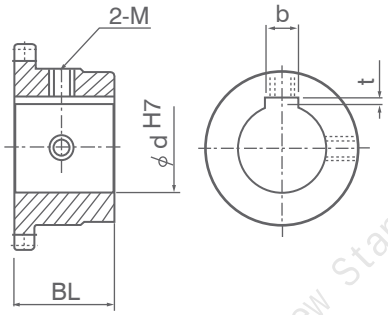
NSPT Standard

Coupling TYPE	Chain TYPE	Bore		Dimension						Rated Torque (lb-in)	Wt Lbs	Dia. of Cover		
		Min	Max	L	BL	S	d	O	C			A	B	Wt Lbs
KC-3012	06B-2X12	1/2	5/8	2 9/16	1 3/16	0.204	1 3/8	1 25/32	0.402	4.66	0.8	2 23/32	2 1/2	0.62
KC-4012	40-2X12	1/2	7/8	3 1/8	1 7/16	0.291	1 3/8	2 7/16	0.567	20.40	1.6	3 1/32	2 27/32	0.62
KC-4014	40-2X14	1/2	1 1/8	3 1/8	1 7/16	0.291	1 21/32	2 23/32	0.567	38.48	2.2	3 5/16	2 31/32	0.82
KC-4016	40-2X16	9/16	1 1/4	3 7/16	1 9/16	0.291	1 31/32	3 1/32	0.567	65.70	2.8	3 5/8	2 31/32	0.82
KC-5014	50-2X14	9/16	1 3/8	3 15/16	1 25/32	0.382	2 1/8	3 3/8	0.713	120.20	4.51	4	3 11/32	1.0
KC-5016	50-2X16	5/8	1 9/16	3 15/16	1 25/32	0.382	2 7/16	3 21/32	0.713	194.40	5.5	4 11/32	3 11/32	1.2
KC-5018	50-2X18	5/8	1 3/4	3 15/16	1 25/32	0.382	2 3/4	4 3/16	0.713	308.40	7.8	4 13/16	3 11/32	1.6
KC-6018	60-2X18	3/4	2 3/16	4 7/8	2 3/16	0.453	3 11/32	5	0.898	804.20	12.7	5 19/32	4 1/8	2.5
KC-6020	60-2X20	3/4	2 3/8	4 7/8	2 3/16	0.453	3 15/16	5 15/32	0.898	1257.4	16.0	6 1/4	4 1/8	3.3
KC-6022	60-2X22	3/4	2 25/32	4 7/8	2 3/16	0.453	4 11/32	5 31/32	0.898	1869.0	21.4	6 5/8	4 19/32	3.7
KC-8018	80-2X18	3/4	3 1/8	5 9/16	2 1/2	0.598	4 11/32	6 21/32	1.154	2840.6	26.1	7 1/2	5 1/16	5.2
KC-8020	80-2X20	3/4	3 1/2	5 23/32	2 9/16	0.598	4 11/16	7 9/32	1.154	4098.0	33.0	8 1/4	5 13/32	5.9
KC-8022	80-2X22	3/4	3 15/16	6 1/8	2 25/32	0.598	5 1/2	7 31/32	1.154	6823.4	41.6	8 7/8	5 13/32	7.4
KC-10020	100-2X20	1	4 5/16	7 1/32	3 1/8	0.740	6 3/8	9 3/16	1 409	12925	68.0	11 1/16	6 1/32	9.5
KC-12018	120-2X18	1 3/8	5	8	3 17/32	0.894	6 11/16	10 1/16	1.787	21514	96.9	12 1/32	7 1/8	12.8
KC-12022	120-2X22	1 3/8	5 1/2	8 25/32	3 15/16	0.894	8 1/4	11 31/32	1.787	4.9090	148.4	14 1/32	7 1/8	16.5

The inner diameter dimension can supply finished chain coupling according to JIS,GB,BS and ASA standard series.

Chain Couplings KC





Finished Bore

FB-KC Chain Couplings

NSPT Standard

Coupling	L	BL	S	BO	O	C	Finsished Bore fd^{H7}							
FB-KC-3012	2 9/16	1 3/16	0.204	1 3/8	1 25/32	0.402	9/16	5/8						
FB-KC-4012	3 1/8	1 7/16	0.291	1 3/8	2 7/16	0.567	9/16	5/8	11/16	3/4	13/16	7/8		
FB-KC-4014	3 1/8	1 7/16	0.291	1 21/32	2 23/32	0.567	11/16	3/4	13/16	7/8	15/16	1"	1 1/8	
FB-KC-4016	3 7/16	1 9/16	0.291	1 31/32	3 1/32	0.567	3/4	13/16	7/8	15/16	1"	1 1/8	3/16	1 1/4
FB-KC-5014	3 15/16	1 25/32	0.382	2 1/8	3 3/8	0.713	13/16	7/8	15/16	1"	1 1/8	1 1/4	1 3/8	
FB-KC-5016	3 15/16	1 25/32	0.382	2 7/16	3 21/32	0.713	7/8	15/16	1"	1 1/8	1 3/16	1 1/4	1 3/8	1 1/2 1 9/16
FB-KC-5018	3 15/16	1 25/32	0.382	2 3/4	4 3/16	0.713	1 3/16	1 1/4	1 3/8	1 1/2	1 9/16	1 5/8	1 3/4	
FB-KC-6018	4 7/8	2 3/16	0.453	3 11/32	5	0.898	1 9/16	1 5/8	1 3/4	2"	2 1/4			
FB-KC-6020	4 7/8	2 3/16	0.453	3 15/16	5 15/32	0.898	5/8	1 3/4	2"	2 1/4	2 3/8			
FB-KC-6022	4 7/8	2 3/16	0.453	4 11/32	5 31/32	0.898	1 7/8	2"	2 1/4	2 3/8	2 1/2			

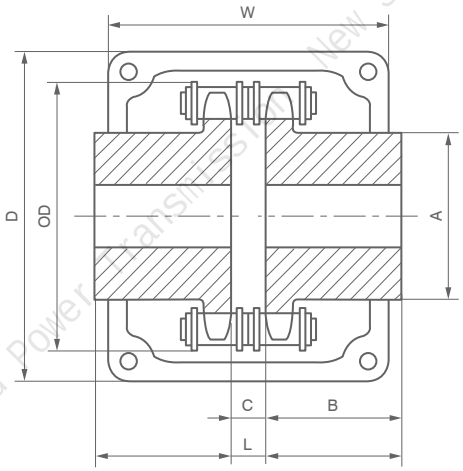
Keyway & Set Screws

Bore Range	Keyseat	Bore Range
1/2-9/16	1/8x1/16	10-24
5/8-7/8	3/16x3/32	1/4x3/8
15/16-1 1/4	1/4x1/8	5/16x3/8
1 5/16-1 3/8	5/16x5/32	5/16x3/8
1 7/16-1 3/4	3/8x3/16	3/8x1/2
1 13/16-2 1/4	1/2x1/4	1/2x5/8
2 5/16-2 3/4	5/8x5/16	5/8x3/4



Chain Couplings MC

Stock Bore



Stock Coupling Covers

This type of cover fits stock bore, finished bore and QTL taper bushed couplings. The use of covers will allow great lubrication and is recommended in order to achieve the maximum lifetime of the component. Covers are made of aluminum in halves for easy installation. Synthetic rubber oil seals are used between coupling hubs for retaining the lubricant and preventing the entry of dirt. Gaskets are used between the halves.

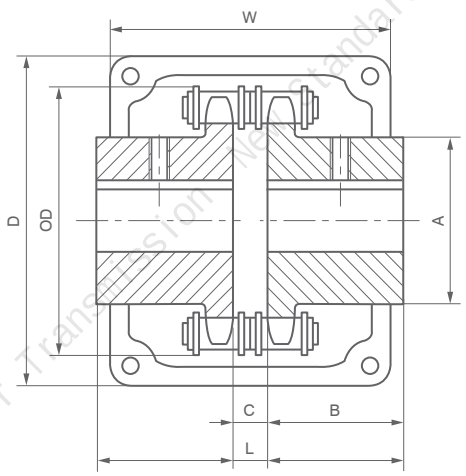
Coupling Number	Bore		Dimension						Dia. of Cover		
	Min	Max	A	B	C	L	O.D	Wt Lbs	D	W	Wt Lbs
MC4012	1/2	3/4	1 13/32	1 1/8	9/32	2 17/32	2 13/32	0.4	4	2	0.78
MC4016	5/8	1 1/4	1 31/32	1 1/8	9/32	2 17/32	3 1/32	0.8	4	2	0.92
MC5016	3/4	1 5/8	2 1/2	1 7/16	3/8	3 1/4	3 25/32	1.6	5 1/8	2 3/8	1.3
MC5018	3/4	1 15/16	2 31/32	1 11/16	3/8	3 3/4	4 3/16	2.4	5 1/8	2 3/8	1.3
MC6018	1	2 7/16	3 1/2	1 7/8	7/16	4 3/16	5	4.8	6 3/8	2 15/16	2.44
MC6020	1 1/8	2 5/8	3 7/8	2	7/16	4 7/16	5 1/2	5.2	6 3/8	2 15/16	2.44
MC6022	1 1/8	2 7/8	4 1/2	2 1/8	7/16	4 11/16	5 61/64	7.8	8 3/16	4	4.88
MC8018	1 1/8	2 15/16	4 9/16	2 3/8	37/64	5 21/64	6 21/32	9.5	8 3/16	4	4.88
MC8020	1 1/2	3 7/16	5 3/8	2 5/8	37/64	5 33/64	7 19/64	13.4	8 3/16	4	4.88
MC10018	1 1/2	3 7/16	5 11/16	2 3/4	23/32	6 7/32	8 21/64	18.2	9 3/8	5 15/16	8.76
MC10020	2	3 15/16	6 23/32	3 1/8	23/32	6 31/32	9 1/8	25.0	10 1/8	5 1/4	12.66
MC12018	3 7/16	4 7/16	6 3/4	3 1/2	55/64	7 7/8	10	28.0	11 3/8	7 3/8	16.40
MC12022	4 3/8	4 15/16	8 3/4	4	55/64	8 7/8	11 57/64	55.0	13 1/4	7 15/16	19.50

Standard Keyseats

Bore Range	Keyseat
1/2"-9/16"	1/8"x1/16"
5/8-7/8	3/16x3/32
15/16-1 1/4	1/4x1/8
1 5/16-1 3/8	5/16x5/32
1 7/16-1 3/4	3/8x3/16
1 13/16-2 1/4	1/2x1/4
2 5/16-2 3/4	5/8x5/16
2 13/16-3 1/4	3/4x3/8
3 5/16-3 3/4	7/8x7/16
3 13/16-4 1/2	1x1/2
4 9/16-5 1/2	1 1/4x5/8

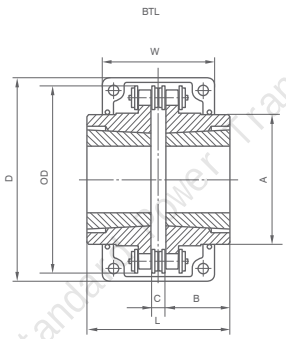
*1 3/8" Bore Bushings also available with 3/8"x3/16" Keyseat.

Finished Bore

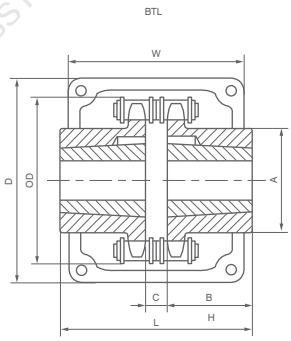


Taper Bore Chain Couplings MC

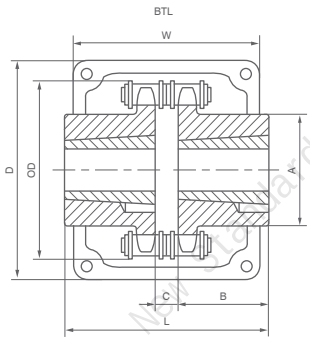
BTL



TYPE HH



TYPE FF



TYPE FH

Coupling Number	Bushing			Dimension							
	Bushing	Boro Max	Bore Min	A	B	C	J*	K▲	L	O.D	Wt Lbs
MC4016TB	1108	1 1/8	1/2	1 31/32	7/8	9/32	5/8	3/4	2 1/32	3 1/32	0.9
MC5018TB	1610	1 5/8	1/2	2 31/32	1	3/8	13/16	1 1/16	2 3/8	4 3/16	1.1
MC6020TB	2012	2	1/2	3 7/8	1 1/4	7/16	15/16	1 3/8	2 15/16	5 1/2	2.7
MC8020TB	3020	3	15/16	5 3/8	2	37/64	1 3/16	2 1/16	4 37/64	7 19/64	6.1
MC10020TB	3535	3 1/2	1 3/16	6 23/32	3 1/2	23/32	2	2 5/8	7 23/32	9 1/8	19

*Space needed for (1) tightening bushing with shortened hex key (2) loosening screws for puller to remove hub.
▲Minimum clearance required to remove the coupling half by using the screws as jack screws with shortened hex key.

BTL Taper Bushing

Bush. No.	Bore	Bushing Keyway
1108	1/2 9/16	1/8x1/16
	5/8 11/16 3/4 13/16 7/8	3/16x3/32
	15/16 1	1/4x1/8
△ △	1 1/16 1 1/8	1/4x1/16
1610	1/2 9/16	1/8x1/16
	5/8 11/16 3/4 13/16 7/8	3/16x3/32
	15/16 1 1 1/16 1 1/8 1 3/16	1/4x1/8

Bush. No.	Bore	Bushing Keyway
△ △	1 1/4 1 5/16 1 3/8	5/16x5/32
	1 7/16 1 1/2	3/8x3/16
	1 9/16 1 5/8	3/8x1/8
2012	1/2 9/16	1/8x1/16
	5/8 11/16 3/4 13/16 7/8	3/16x3/32
	15/16 1 1 1/16 1 1/8 1 3/16 1 1/4	1/4x1/8
	1 5/16 1 3/8	5/16x5/32

Bush. No.	Bore	Bushing Keyway
△ △	1 7/16 1 1/2 1 9/16 1 5/8 1 11/16 1 3/4	3/8x3/16
	1 13/16 1 7/8	1/2x1/4
	1 15/16 2	1/2x3/16
3020	7/8	3/16x3/32
	15/16 1 1 1/8 1 3/16 1 1/4	1/4x1/8
	1 5/16 1 3/8	5/16x5/32
	1 7/16 1 1/2 1 9/16 1 5/8 1 11/16 1 3/4	3/8x3/16

Bush. No.	Bore	Bushing Keyway
3020	1 13/16 1 7/8 1 15/16 2 2 1/16 2 1/8 2 3/16 2 1/4	1/2x1/4
	2 5/16 2 3/8 2 7/16 2 1/2 2 5/8 2 11/16 2 3/4	5/8x5/16
△ △ △ △	2 13/16 2 7/8 2 15/16 3	3/4x1/4

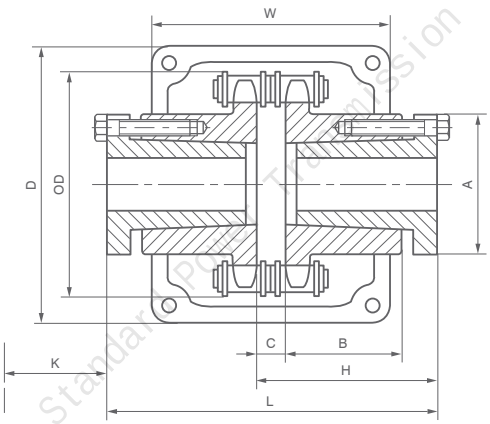
Bush. No.	Bore	Bushing Keyway
3535	1 3/16 1 1/4	1/4x1/8
	1 5/16	5/16x5/32
	1 7/16 1 1/2 1 5/8 1 11/16 1 3/4	3/8x3/16
	1 13/16 1 15/16 2 2 1/8 2 3/16 2 1/4	1/2x1/4
	2 5/16 2 3/8 2 7/16 2 1/2 2 5/8 2 11/16 2 3/4	5/8x5/16

Bush. No.	Bore	Bushing Keyway
3535	2 13/16 2 15/16 3 3 1/8 3 3/16 3 1/4	3/4x3/8
△ △ △ △	3 5/16 3 3/8 3 7/16 3 1/2	7/8x1/4

△ -shallow keyway

Taper Bore Chain Couplings MC

QTL





Couplings Number	Bushing	Bore Max*	Dimension							
			A	B	H	C	L	O.D	K▲	wt Lbs
MC4016JA	JA	1	2	7/8	15/16	9/32	229/32	31/32	11/4	0.9
MC5018SH	SH	13/8	231/32	1	11/2	3/8	33/8	43/16	13/4	1.3
MC6020SK	SK	21/8	37/8	11/4	17/8	7/16	43/16	51/2	21/4	2.5
MC8018SF	SF	25/16	49/16	13/4	23/8	37/64	521/64	621/32	21/4	5.3

*Maximum bore shown is the maximum bore with standard keyway.It is recommended that this maximum not be exceeded in both halves of a coupling.
▲Minimum clearance required to remove the coupling half by using the screws as jack screws.

BORES AND KEYWAYS

Bushing	Bores	Keyseat
JA	3/8-7/16	None
	1/2-1	Std.
	11/16-13/16	1/4x1/16
	11/4	None
SH	1/2-13/8	Std.
	17/16-15/8	3/8x1/16
	111/16	None
SK	1/2-21/8	Std.
	23/16-21/4	1/2x1/8
	25/16-21/2	5/8x1/16
	29/16-25/8	None
SF	1/2-21/4	Std.
	25/16-21/2	5/8x3/16
	29/16-23/4	5/8x1/16
	213/16-27/8	3/4x1/16
	215/16	3/4x1/32

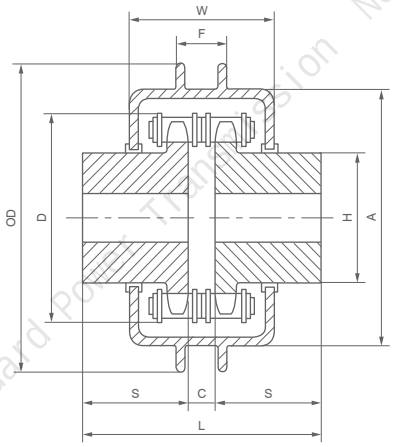
QTL Taper Bushing

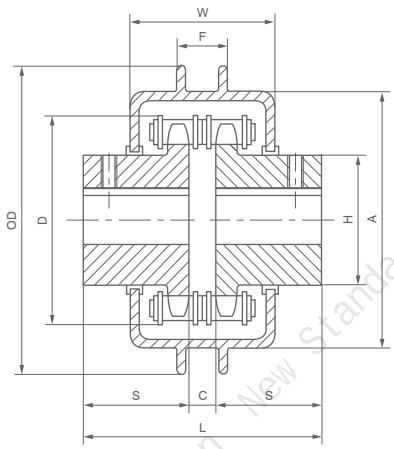
STANDARD KEYWAY & KEY DIMENSION

Bore	Key Seat	Key
1/2-9/16	1/8x1/16	1/8x1/8
5/8-7/8	3/16x3/32	3/16x3/16
15/16-11/4	1/4x1/8	1/4x1/4
15/16-13/8	5/16x5/32	5/16x5/16
17/16-13/4	3/8x3/16	3/8x3/8
113/16-21/4	1/2x1/4	1/2x1/2
25/16-23/4	5/8x5/16	5/8x5/8
213/16-31/4	3/4x3/8	3/4x3/4
35/16-33/4	7/8x7/16	7/8x7/8
313/16-41/2	1x1/2	1x1
49/16-51/2	11/4x5/8	11/4x11/4
59/16-61/2	11/2x3/4	11/2x11/2
69/16-71/2	13/4x7/8	13/4x13/4

Dimension:inch

Chain Couplings BC





Coupling Number	Dimension						Dia. of cover				
	D	L	H	S	C	wt Lbs	O.D	A	W	F	wt Lbs
BC4012	2 3/8	2 11/16	1 3/8	1 3/16	5/16	0.3	3 3/8	2 11/16	1 11/16	9/16	0.7
BC4016	3	2 11/16	2	1 3/16	5/16	0.8	4	3 5/16	1 11/16	9/16	0.9
BC5016	3 3/4	3	2 1/2	1 5/16	3/8	1.8	4 3/4	4 1/16	2	9/16	1.3
BC5018	4 1/8	3 5/8	3	1 5/8	3/8	2.0	5 5/8	4 11/16	2 3/16	7/8	2.7
BC6018	5	4 9/16	3 5/8	2 1/16	7/16	5.2	6 15/16	5 13/16	2 13/16	1 1/8	5.1

Coupling Number	Stock Bores																
	1/2	5/8	3/4	7/8	1	1 1/8	1 3/16	1 1/4	1 3/8	1 7/16	1 1/2	1 5/8	1 3/4	1 7/8	1 15/16	2	2 1/8	2 3/8
BC4012FB	●	●	●															
BC4016FB			●	●	●	●	●	●										
BC5016FB			●	●	●	●	●	●	●	●	●	●						
BC5018FB								●	●	●	●	●	●	●				
BC6018FB										●	●	●	●	●	●	●	●	●

*Packaged Half Couplings only. For Complete Cuplings, order two Halves and one chain.

Finished Bore

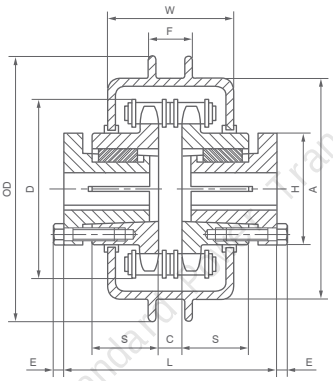
Standard Keyways

Bore Range	Keyway
1/2"	None
5/8-7/8	3/16"x3/32"
1-1 1/4	1/4x1/8
1 5/16-1 3/8	5/16x5/32
1 7/16-1 3/4	3/8x3/16
1 7/8-2 1/4	1/2x1/4
2 3/8	5/8x5/16

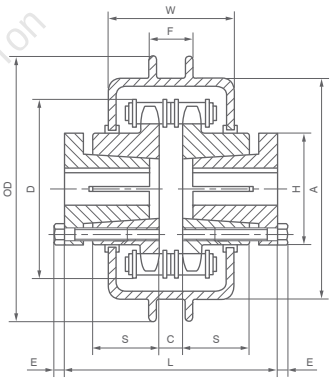
Finished Bore Chain Couplings are made with Solid Steel Sprockets with Hardened Teeth, Standard Keyway and Hollow Head Set Screw.

Taper Bore Chain Couplings BC

STL



Bushed Type
G and H Couplings



Bushed Type
P1,Q1 and R1 Couplings

Taper bore Bushed Type Chain Couplings are made with Solid Steel Sprockets with Hardened Teeth. They are machined for STL Taper Bushings.

Coupling Number	Bushing		Dimension							Dia. of cover				
	Size	Bore	D	L	H	S	C	E	wt Lbs	O.D	A	W	F	wt Lbs
BC3520G	G	3/8-1	2 3/4	2 3/4	2	13/16	1/4	3/16	0.5	3 3/4	3 1/16	1 3/8	9/16	0.7
BC3524H	H	3/8-1 1/2	3 3/16	3 1/8	2 1/2	1	1/4	3/16	0.9	4 3/16	3 1/2	1 3/8	9/16	0.8
BC4020H	H	3/8-1 1/2	3 5/8	3 3/16	2 1/2	1	5/16	3/16	1.0	4 5/8	3 15/16	1 11/16	9/16	1.1
BC4022P	P1	1/2-1 3/4	3 15/16	4 7/16	3	1 7/16	5/16	1/4	1.3	5 7/16	4 1/2	1 7/8	7/8	1.5
BC5016H	H	3/8-1 1/2	3 3/4	3 1/8	2 1/2	15/16	3/8	3/16	1.4	4 3/4	4 1/16	2	9/16	2.5
BC5018P	P1	1/2-1 3/4	4 1/8	4 7/16	3	1 13/32	3/8	1/4	1.8	5 5/8	4 11/16	2 3/16	7/8	2.7
BC6016P	P1	1/2-1 3/4	4 1/2	4 7/16	3	1 3/8	7/16	1/4	1.9	6	5 1/16	2 11/16	7/8	3.5
BC6020Q	Q1	3/4-2 11/16	5 1/2	5 9/16	4 1/8	1 13/16	7/16	5/16	3.5	7 5/16	6 3/16	2 13/16	1 1/8	5.5
BC8016Q	Q1	3/4-2 11/16	6 1/16	5 9/16	4 1/8	1 3/4	9/16	5/16	3.8	7 7/8	6 3/4	3 3/8	1 1/8	7.0
BC10018R	R1	1 1/8-3 3/4	8 3/8	6 1/2	5 3/8	2	3/4	5/16	8.0	10 1/8	9	3 15/16	1 1/8	11.2

Standard Keyseats

Bore Range	Keyseat	Bore Range	Keyway
3/8"-7/16"	None	1 7/16"-1 3/4"	3/8"x3/16"
1/2-9/16	1/8"x1/16"	1 13/16-2 1/4	1/2x1/4
5/8-7/8	3/16x3/32	2 5/16-2 3/4	5/8x5/16
15/16-1 1/4	1/4x1/8	2 13/16-3 1/4	3/4x3/8
1 5/16-1 3/8	5/16x5/32	3 3/8-3 3/4	7/8x7/16
		3 7/8-4 1/4	1x1/2

1 3/8" Bore Bushings also available with 3/8"x3/16" Keyseat.

Bore Range

Bushing	Bore Range
G	3/8"-1"
H	3/8-1 1/2
P1	1/2-1 3/4
Q1	3/4-2 11/16
R1	1 1/8-3 3/4
S1	1 11/16-4 1/4

STL Taper Bushing

NSPT GF-Couplings

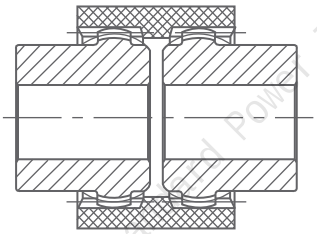
Conceptual Diagram for Installation Errors



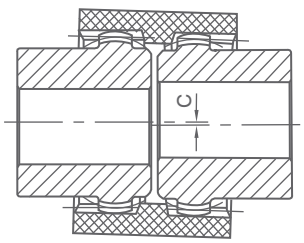
Catalog	Parallel Misalignment	Angular Misalignment	Shaft End-play
GF-14	0.03	±2°	±0.04
GF-19	0.03	±2°	±0.04
GF-24	0.03	±2°	±0.04
GF-28	0.04	±2°	±0.04
GF-32	0.04	±2°	±0.04
GF-38	0.035	±2°	±0.04
GF-42	0.035	±2°	±0.04
GF-48	0.035	±2°	±0.04
GF-55	0.05	±2°	±0.04
GF-65	0.05	±2°	±0.04

Direction for Installation:

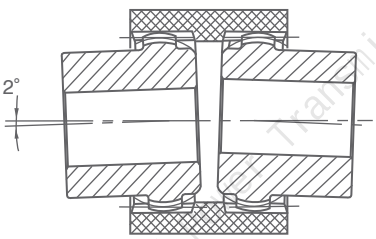
When installing the coupling, ensure the shaft is parallel to the gear face. The existences of slot in between two gears, enough external length required for installation and the proper radial eccentricity have to be guaranteed. Angular and axial deviations should be ensured within allowed range.



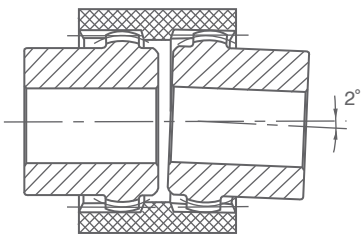
end floating



parallel misalignment



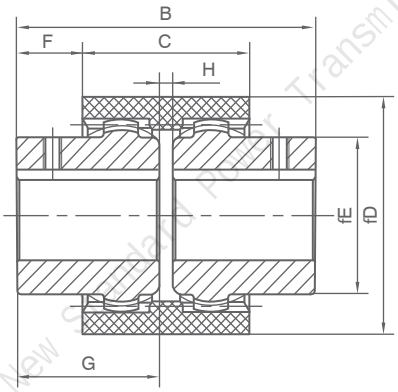
angular misalignment



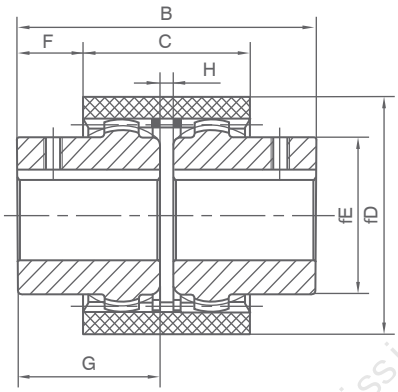
composite misalignment

NSPT GF-Couplings

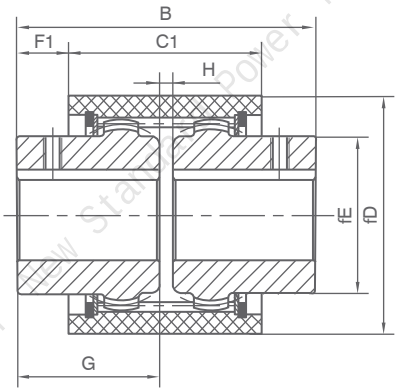
GF Couplings have been used widely by various mechanical engineering and hydraulic fields nowadays. It is suitable for both horizontal and vertical installations. Its axial-shaft-inserting assembling method makes the installation very convenient to users. It also adopts the curve surface drum type teeth, which avoid the focal of stress under installation tolerance. The maintenance is eliminated through the assembly of steel gear and nylon teeth sheath. This will compensate axial, radial and angular tolerance for two shaft lines.



Type1



Type2



Type3

NSPT GF-Coupling (Standard Series)(Type1 & Type2)

Catalog	Fundamental Dimensions							Bore		Max Torque Ft.lb	Max Revolution (rpm)	Moment of inertia lb.in^2	Wt Lbs
	D	E	B	C	F	G	H	Pilot	Max				
GF-14	15/8	1	2	11/2	1/4	15/16	3/16	1/4	9/16	16.96	14000	0.092	0.48
GF-19	17/8	11/4	23/16	11/2	5/16	1	3/16	5/16	3/4	27.29	12000	0.218	0.83
GF-24	21/16	17/16	21/4	15/8	5/16	11/16	3/16	3/8	15/16	33.93	10000	0.314	1.06
GF-28	25/8	13/4	33/8	17/8	3/4	15/8	3/16	3/8	11/8	75.96	8000	1.176	2.50
GF-32	215/16	2	31/16	17/8	11/16	19/16	3/16	1/2	11/4	101.78	7100	1.715	3.05
GF-38	33/8	21/4	35/16	2	5/8	19/16	3/16	9/16	11/2	129.80	6300	3.270	4.26
GF-42	33/4	21/2	37/16	2	3/4	15/8	3/16	3/4	15/8	162.25	6000	4.453	5.11
GF-48	315/16	25/8	41/16	2	11/16	2	3/16	3/4	17/8	227.15	5600	6.189	6.85
GF-55	43/4	31/4	47/8	29/16	13/16	23/8	3/16	1	23/16	420.37	4800	16.859	12.00
GF-65	51/2	33/4	55/8	27/8	17/16	23/4	3/16	1	25/8	619.50	4000	36.260	18.50

NSPT GF-Coupling (Standard Series)(Type3)

Catalog	Fundamental Dimensions							Bore		Max Torque Ft-Lb	Max Revolution (rpm)	Moment of inertia lb.in^2	Wt Lbs
	D	E	B	C1	F1	G	H	Pilot	Max				
GF-24	21/16	17/16	21/4	21/16	3/32	11/16	3/16	3/8	15/16	33.93	10000	0.314	1.06
GF-28	25/8	13/4	33/8	21/4	9/16	15/8	3/16	3/8	11/8	75.96	8000	1.176	2.50
GF-32	215/16	2	35/16	21/4	1/2	19/16	3/16	1/2	11/4	101.78	7100	1.715	3.05
GF-38	33/8	21/4	35/16	27/16	9/16	19/16	3/16	9/16	11/2	129.80	6300	3.270	4.26
GF-42	33/4	21/2	37/16	27/16	9/16	15/8	3/16	3/4	15/8	162.25	6000	4.453	5.11
GF-48	315/16	25/8	41/16	29/16	9/16	2	3/16	3/4	17/8	227.15	5600	6.189	6.85
GF-55	43/4	31/4	47/8	33/16	5/8	23/8	3/16	1	23/16	420.37	4800	16.859	12.0
GF-65	51/2	33/4	55/8	37/16	5/8	23/4	3/16	1	29/16	619.50	4000	36.260	18.5

Keyway dimensions conform to DIN 6885, JIS B 1310-1976, UNI 6604-1969, GB 1095-1979 standards.

NSPT GF-Coupling

NSPT GF-coupling(lengthen series)(Type1 Type2)

Catalog	Fundamental Dimensions							Bore		Max Torque Ft-Lbs	Max Revolution (rpm)	Moment of inertia Lb·in²	wt Lbs
	D	E	B	C	F	G	H	min	max				
GF-14L	15/8	1	21/2	11/2	1/2	13/16	3/16	1/4	9/16	16.96	14000	0.092	0.60
GF-19L	17/8	11/4	35/16	11/2	7/8	19/16	3/16	5/16	3/4	27.29	12000	0.218	1.26
GF-24L	21/16	17/16	41/16	15/8	11/4	2	3/16	3/8	15/16	33.93	10000	0.314	1.88
GF-28L	25/8	13/4	47/8	17/8	11/2	23/8	3/16	3/8	11/8	75.96	8000	1.176	3.57
GF-32L	215/16	2	47/8	17/8	11/2	23/8	3/16	1/2	11/4	101.78	7100	1.715	4.38
GF-38L	23/8	21/4	67/16	2	21/4	31/8	3/16	9/16	11/2	129.80	6300	3.270	8.12
GF-42L	33/4	21/2	813/16	2	37/16	43/8	3/16	3/4	15/8	162.25	6000	4.453	12.2
GF-48L	315/16	25/8	813/16	2	37/16	43/8	3/16	3/4	17/8	227.15	5600	6.189	14.07
GF-55L	43/4	31/4	813/16	29/16	31/8	43/8	3/16	1	23/16	420.37	4800	16.859	29.12
GF-65L	51/2	33/4	813/16	213/16	3	43/8	3/16	1	29/16	619.50	4000	36.260	35.2

NSPT GF-coupling(lengthen series)(Type3)

Catalog	Fundamental Dimensions							Bore		Max Torque Ft-Lbs	Max Revolution (rpm)	Moment of inertia Lb·in²	wt Lbs
	D	E	B	C1	F1	G	H	Pilot	Max				
GF-24L	21/16	17/16	41/16	21/16	1	2	3/16	3/8	7/8	33.93	10000	0.314	1.88
GF-28L	25/8	13/4	47/8	21/4	11/4	23/8	3/16	3/8	11/8	75.96	8000	1.176	3.57
GF-32L	215/16	2	47/8	21/4	11/4	23/8	3/16	1/2	11/4	101.78	7100	1.715	4.38
GF-38L	33/8	21/4	67/16	27/16	21/16	33/16	3/16	9/16	11/2	129.80	6300	3.270	8.12
GF-42L	33/4	21/2	813/16	27/16	31/4	43/8	3/16	3/4	15/8	162.25	6000	4.453	12.2
GF-48L	315/16	25/8	813/16	29/16	31/4	43/8	3/16	3/4	17/8	227.15	5600	6.189	14.2
GF-55L	43/4	31/4	813/16	33/16	113/16	43/8	3/16	1	23/16	420.37	4800	16.859	29.1
GF-65L	51/2	33/4	813/16	37/16	211/16	51/2	3/16	1	29/16	619.50	4000	36.260	35.2

Keyway dimensions conform to DIN 6885, JIS B 1310-1976, UNI 6604-1969, GB 1095-1979 standards.

Expressing method:

GF - 14 - 1

- 1 — Type
- 14 — Max bore
- GF — NSPT GF coupling

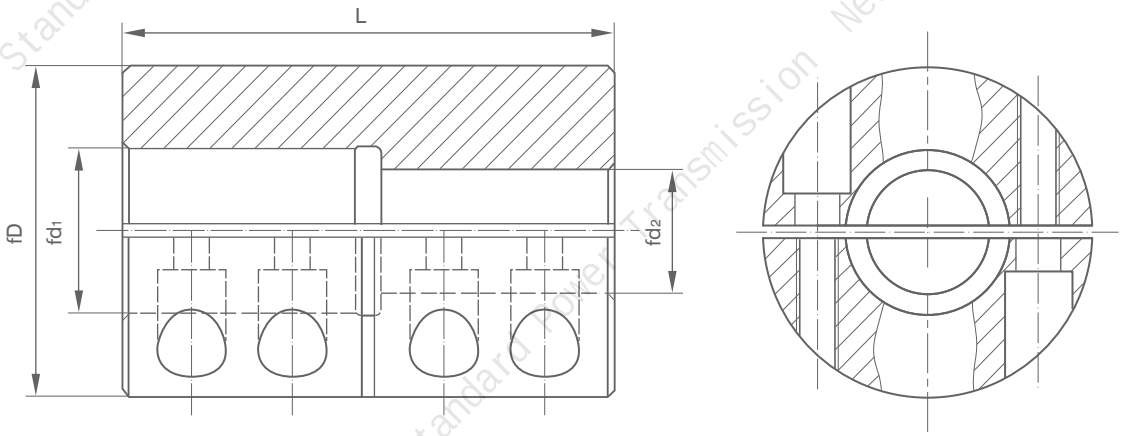
GF - 14L - 1

- 1 — Type
- 14L — Max bore (length type)
- GF — NSPT GF coupling

NSPT 2CC-Coupling



- Axially inserting style assembly;
- Precise concentricity is required for two shafts;
- Compact structure
- Suitable for horizontal and vertical installation.



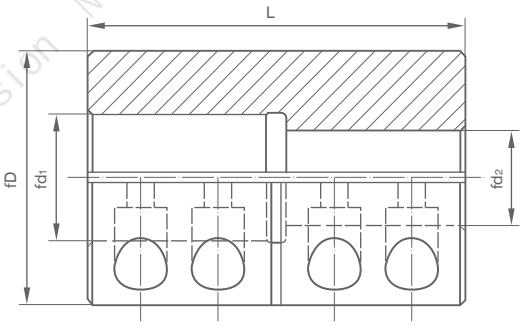
NSPT 2CC-coupling

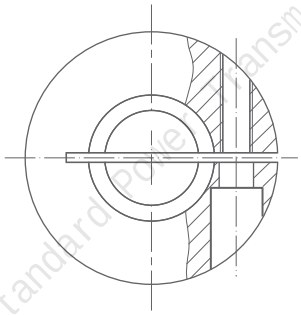
Catalog		Fundamental Dimensions		Bore		Bolts		Max Torque (in.Lbs)	Max Revolution (rpm)	G (Lbs)
Black Oxide Stell	Black Oxide Stell With Keykey	D	L	d1	D2	Sizes	Qty			
2CC-050-050	2CC-050-050KW	1-1/4	1-7/8	1/2	1/2	#8-32X1/2		163	3008	0.481
2CC-062-050	2CC-062-050KW	1-1/2	2-1/4	5/8	1/2	#10-32X1/2		275	2506	0.852
2CC-062-062	2CC-062-062KW	1-1/2	2-1/4	5/8	5/8	#10-32X1/2		281	2506	0.781
2CC-075-062	2CC-075-062KW	1-3/4	2-5/8	3/4	5/8	1/4-28X5/8		439	2148	1.377
2CC-075-075	2CC-075-075KW	1-3/4	2-5/8	3/4	3/4	1/4-28X5/8		447	2148	1.377
2CC-087-087	2CC-087-087KW	1-7/8	2-7/8	7/8	7/8	1/4-28X5/8		533	2005	1.589
2CC-100-057	2CC-100-075KW	2	3	1	3/4	1/4-28X5/8		614	1880	1.821
2CC-100-100	2CC-100-100KW	2	3	1	1	1/4-28X5/8	8	627	1880	1.821
2CC-112-112	2CC-112-112KW	2-1/8	3-1/4	1-1/8	1-1/8	1/4-28X3/4		730	1769	2.141
2CC-125-100	2CC-125-100KW	2-1/4	3-3/8	1-1/4	1	1/4-28X3/4		827	1671	2.653
2CC-125-125	2CC-125-125KW	2-1/4	3-3/8	1-1/4	1-1/4	1/4-28X3/4		843	1671	2.653
2CC-137-100	2CC-137-100KW	2-3/8	3-5/8	1-3/8	1	1/4-28X3/4		950	1583	2.828
2CC-137-137	2CC-137-137KW	2-3/8	3-5/8	1-3/8	1-3/8	1/4-28X3/4		965	1583	2.828
2CC-150-150	2CC-150-150KW	2-1/2	3-3/4	1-1/2	1-1/2	1/4-28X3/4		1096	1504	3.097
2CC-175-175	2CC-175-175KW	3	4-1/2	1-3/4	1-3/4	5/16-24X1		1954	1253	5.634
2CC-200-200	2CC-200-200KW	3-1/4	4-7/8	2	2	5/16-24X1		2381	1157	6.885
2CC-225-225	2CC-255-255KW	3-1/2	5	2-1/4	2-1/4	5/16-24X1		2856	1074	8.137

Keyway dimensions conform to DIN 6885, JIS B 1310-1976, UNI 6604-1969, GB 1095-1979 standards.

NSPT CC-Coupling





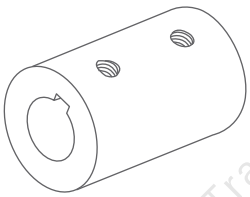


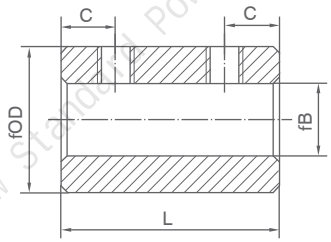
CC NSPT-coupling

Catalog		Fundamental Dimensions		Bore		Bolts		Max Torque (in.Lbs)	Max Revolution (rpm)	G (Lbs)
Black Oxide Stell	Black Oxide Stell With Keykey	D	L	d1	d2	Sizes	Qty			
CC-025-025		13/16	1-1/4	1/4	1/4	#4-40X3/8		130	4600	0.141
CC-037-025		1-1/16	1-5/8	3/8	1/4	#6-32X3/8		288	3500	0.320
CC-037-037	CC-037-037KW	1-1/6	1-5/8	3/8	3/8	#6-32X3/8		290	3500	0.311
CC-050-037		1-1/4	1-7/8	1/12	3/8	#8-32X1/2		453	3000	0.508
CC-050-050	CC-050-050KW	1-1/4	1-7/8	1/2	1/2	#8-32X1/2		461	3000	0.481
CC-062-050		1-1/2	2-1/4	5/8	1/2	#10-32X1/2		787	2500	0.832
CC-062-062	CC-062-062KW	1-1/2	2-1/4	5/8	5/8	#10-32X1/2		798	2500	0.832
CC0-75-075		1-3/4	2-5/8	3/4	1/2	1/4-28X5/8		1256	2100	1.377
CC-075-062		1-3/4	2-5/8	3/4	5/8	1/4-28X5/8		1256	2100	1.377
CC-075-075	CC-075-075KW	1-3/4	2-5/8	3/4	3/4	1/4-28X5/8		1267	2100	1.309
CC-087-062		1-7/8	2-7/8	7/8	5/8	1/4-28X5/8		1498	2000	1.715
CC-087-087	CC-087-087KW	1-7/8	2-7/8	7/8	7/8	1/4-28X5/8		1519	2000	1.589
CC-100-050		2	3	1	1/2	1/4-28X5/8	4	1804	1800	1.053
CC-100-075		2	3	1	3/4	1/4-28X5/8		1804	1800	1.965
CC-100-100	CC-100-100KW	2	3	1	1	1/4-28X5/8		1813	1800	1.815
CC-112-100		2-1/8	3-1/4	1-1/8	1	1/4-28X3/4		2126	1700	2.247
CC-112-112	CC-112-112KW	2-1/8	3-1/4	1-1/8	1-1/8	1/4-28X3/4		2136	1700	2.172
CC-125-100		2-1/4	3-3/8	1-1/4	1	1/4-28X3/4		2479	1600	2.616
CC-125-125	CC-125-125KW	2-1/4	3-3/8	1-1/4	1-1/4	1/4-28X3/4		2490	1600	2.402
CC-137-100		2-3/8	3-5/8	1-3/8	1	1/4-28X3/4		2863	1500	3.130
CC-137-137	CC-137-137KW	2-3/8	3-5/8	1-3/8	1-3/8	1/4-28X3/4		2874	1500	2.797
CC-150-100		2-1/2	3-3/4	1-1/2	1	1/4-28X3/4		3275	1450	3.592
CC-150-150	CC-150-150KW	2-1/2	3-3/4	1-1/2	1-1/2	1/4-28X3/4		3286	1450	3.097
CC-175-175	CC-175-175KW	3	4-1/2	1-3/4	1-3/4	5/16-24X1		5804	1200	5.634
CC-200-200	CC-200-200KW	3-1/4	4-7/8	2	2	5/16-24X1		7066	1100	6.695

Keyway dimensions conform to DIN 6885, JIS B 1310-1976, UNI 6604-1969, GB 1095-1979 standards.

NSPT CS-Coupling

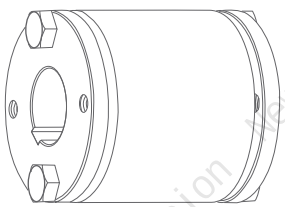


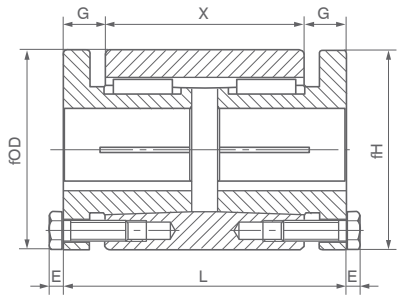


Catalog	Fundamental Dimensions				Bolt		Keyway	wt
	OD	B	L	C	Size	Qty		Lbs
CS-04	1/2	1/4	3/4	3/16	#6-32X1/8		–	0.06
CS-05	5/8	5/16	1	1/4	#10-24X3/16		–	0.06
CS-06	3/4	3/8	1	1/4	#10-24X3/16		–	0.1
CS-08	1	1/2	1 1/2	3/8	1/4-20X1/4		–	0.2
CS-10	1 1/4	5/8	2	1/2	1/4-20X1/4		–	0.5
CS-10K	1 1/4	5/8	2	1/2	1/4-20X3/16		3/16X3/32	0.5
CS-12	1 1/2	3/4	2	1/2	5/16-18X1/4		–	0.8
CS-12K	1 1/2	3/4	2	1/2	5/16-18X1/4		3/16X3/32	0.8
CS-14	1 3/4	7/8	2	1/2	5/16-18X1/4	2	–	1.0
CS-14K	1 3/4	7/8	2	1/2	5/16-18X1/4		3/16X3/32	1.0
CS-16	2	1	3	3/4	3/8-16X3/8		–	1.9
CS-16K	2	1	3	3/4	3/8-16X3/8		1/4X1/8	1.9
CS-18	2 1/8	1 1/8	3	3/4	3/8X16X3/8		1/4X1/8	2.1
CS-18K	2 1/8	1 1/8	3	3/4	3/8X16X1/8		1/4X1/8	2.1
CS-20	2 1/4	1 1/4	4	1	3/8X16X3/8		–	3.1
CS-20K	2 1/4	1 1/4	4	1	3/8X16X3/8		1/4X1/8	3.1
CS-22	2 1/2	1 3/8	4 1/2	1	3/8X16X3/8		–	4.3
CS-22K	2 1/2	1 3/8	4 1/2	1	3/8X16X3/8		5/16X5/32	4.3

Keyway dimensions conform to DIN6885,JIS B 1310-1976,
UNI 6604-1969, GB 1095-1979 standards.

NSPT CSX-Coupling

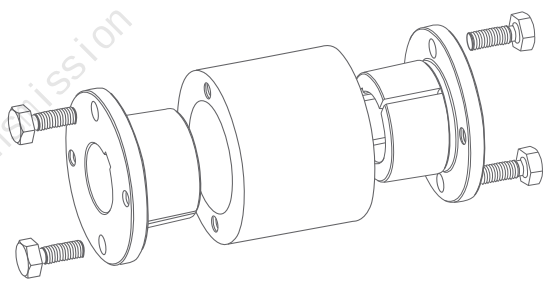




Catalog	Bushing			Fundamental Dimensions						Max.Torque (in.Lbs)	G (Lbs)
	Size	Bore		OD	L	H	G	X	E		
		Min	Max								
CSH	H	3/8	1-1/2	2-1/8	2-7/8	2-1/8	7/16	2	3/16	1700	1.6
CSP	PI	1/2	1-3/4	3	4-1/4	3	5/8	3	1/4	5660	3.4
CSQ	QI	3/4	2-11/16	4-3/8	4-1/2	4-1/8	3/4	4	9/32	14600	9.6

Keyway dimensions conform to DIN6885,JIS B 1310-1976, UNI 6604-1969,
GB 1095-1979 standards.

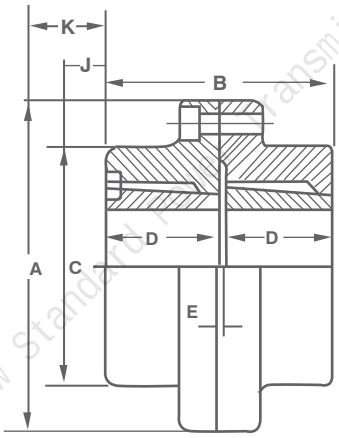




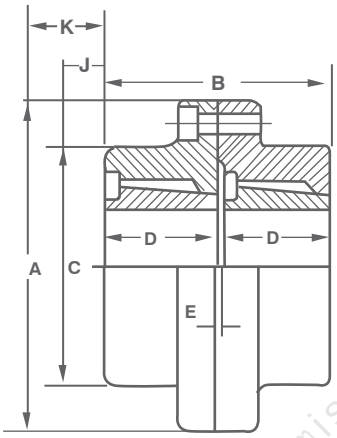
NSPT RM-Coupling

BTL
Taper Bushing

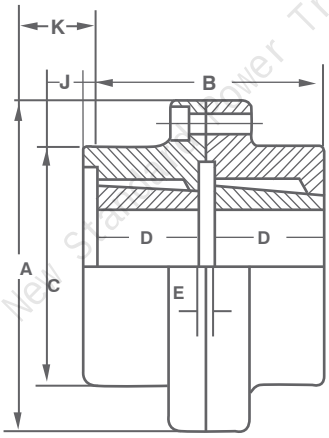
Taper Bore



RM12-RM30



RM35-RM50



RM60

NSPT Taper Bore RM-Coupling

NSPT Standard

Catalog	Bush	Bore		Dimension							Torque (In-Lb)	Max (RPm)	wt Lbs
		Min	Max	A	B	C	D	E	J	K			
RM12	1210	1/2	1 1/4	4 5/8	2 1/4	3	1	1/4	0.65	1.00	1150	4,980	7.7
RM16	1615	1/2	1 11/16	5	3 1/4	3 1/4	1 1/2	1/4	0.81	1.06	1947	4,000	9.9
RM25	2517	1/2	2 11/16	7	3 7/8	5	1 3/4	1/4	1.00	1.63	4425	3545	24.2
RM30	3030	13/16	3 1/4	8 1/2	6 1/4	6	3	1/4	1.19	2.06	8850	2920	50.7
RM35	3535	13/16	3 15/16	9 3/4	7 1/4	7	3 1/2	1/4	1.31	2.69	12390	2545	83.8
RM40	4040	1 7/16	4 7/16	11 3/4	8 1/4	8 1/2	4	1/4	1.63	3.33	23895	2115	141.1
RM45	4545	1 15/16	4 15/16	13	9 1/4	9 1/2	4 1/2	1/4	1.94	4.05	28320	1910	194
RM50	5050	2 7/16	5	14 1/4	10 1/4	10 1/2	5	1/4	1.94	4.05	35400	1910	341.7
RM60	6050	4 7/16	6	20	10 3/4	16	5	3/4	1.63	4.35	254000	1240	526

Special notice

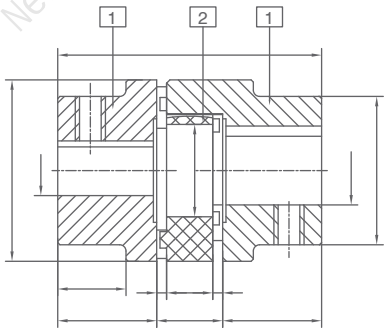
Special Notice: RM-coupling should be dynamically balanced according to degree Q6.3 when the rotational speed in use reaches 1/2 of its limit.

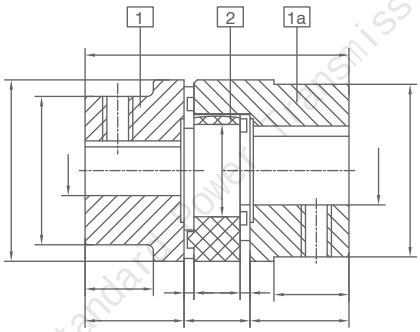


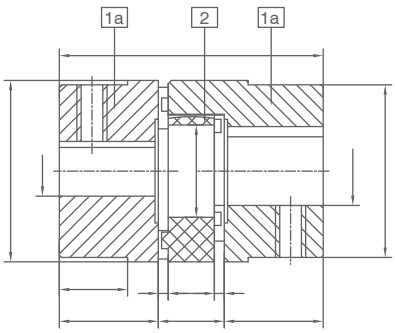
NSPT GE-Couplings



- Elastic torque transmitting with no need for maintenance.
- Lose efficacy protection
- Vibration absorbing
- Axial inserting installation
- Excellent dynamic characteristics
- Simplified design and limited inertia
- Effectively rectify axial, radial and angular deviation in installation.







NSPT GE-COUPLINGS

Material:AL

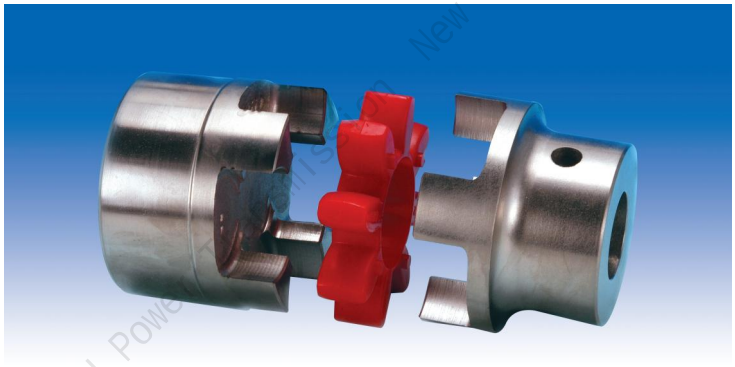
Catalog	Part	Elastomer Rating Moment			Collectivity Size(Inch)										Moment of inertia (lb·in²)	G (Lbs)
		Yellow ft-lbs	Red ft-lbs	Moment of inertia lb·in²	Bore (d) Pilot	Bore (d) Max	L	l_1, l_2	E	b	s	N	DH	D,D1	d_H	
GE-14	1a	5.53	9.22	0.0014	-	5/8	1.38	0.43	0.51	3/8	0.06	0	13/16	13/16	3/8	0.0085	0.044
GE-19	1	7.37	12.50	0.0102	-	3/4	2.60	0.98	0.63	1/2	0.08	3/4	15/8	11/4	11/16	0.0358	0.119
	1a				-	15/16								15/8		0.0630	0.145
GE-24	1	25.80	44.25	0.0341	-	15/16	3.07	1.18	0.71	9/16	0.08	15/16	23/16	15/8	11/16	0.1260	0.242
	1a				-	11/8								23/16		0.2760	0.352
GE-28	1	70.10	118.08	0.0682	-	11/8	3.54	1.38	0.79	5/8	0.10	11/8	25/8	17/8	13/16	0.3070	0.396
	1a				-	11/8								25/8		0.6340	0.561

Order Form:

GE-24	AL	Yellow	1	3/8	1a	5/8
GE-24	AL	Yellow	1	—	1	—
Coupling size	Material	Spider	Hub Design	Finished Bore	Hub Design	Finished Bore

Note: All items are in pilot bore, Finished bore can be provided according to customers' requirements

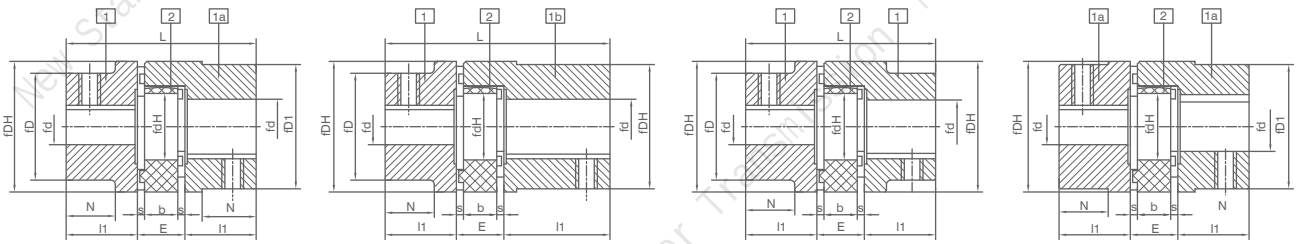
NSPT GE-Coupling



Standard Keyseats

Bores	Key Seat
1/2"-9/16"	1/8"x1/16"
5/8-7/8	3/16"x3/32"
15/16-1 1/4	1/4x1/8
1 5/16-1 3/8	5/16x5/32
1 7/16-1 3/4	3/8x3/16
1 13/16-2 1/4	1/2x1/4

1 3/8" Bore Bushings Also available with 3/8" x 3/16" Ks



NSPT GE-COUPLING

Material:GG25

Catalog	Part	Elastomer Rating Moment			Collectivity Size(mm)										Moment of Inertia Lb·in²	Wt Lbs
		Yellow ft-lbs	Red ft-lbs	Moment of Inertia Lb·in²	Bore (d) Pilot	Bore (d) Max	L	1_1,1_2	E	b	s	N	D_H	D,D_1	dH		
GE-38	1	140	240	0.170	3/8	1 1/2	4.49	1.77	0.95	1 1/16	0.12	1 7/16	3 1/8	2 9/16	1 1/2	2.90	2.16
	1a				3/4	1 3/4								3 1/16		4.33	2.51
	1b						6.46	2.76				2 7/16				6.62	3.70
GE-42	1	195	332	0.341	3/8	1 5/8	4.96	1.97	1.02	3/4	0.12	1 9/16	3 3/4	3	1 13/16	6.12	3.34
	1a				1 1/8	2 1/8								3 11/16		10.23	4.03
	1b						6.93	2.95				2 9/16				14.70	5.74
GE-48	1	229	387	0.682	1/2	1 7/8	5.51	2.20	1.10	1 3/16	0.14	1 3/4	4 1/8	3 3/8	2	10.37	4.60
	1a				1 1/8	2 3/8								4 1/16		16.90	5.46
	1b						7.40	3.15				2 3/4				23.39	7.52
GE-55	1	302	505	1.023	5/8	2 1/8	6.30	2.56	1.18	7/8	0.16	2 1/16	4 3/4	3 7/8	2 3/8	20.95	6.96
	1b				1 9/16	2 3/4								4 5/8		32.25	11.13
GE-65	1	461	693	1.705	3/4	2 9/16	7.28	2.95	1.38	1	0.18	1 15/16	5 5/16	4 1/2	2 11/16	47.96	10.62
GE-75	1	944	1416	6.820	1	2 7/8	8.27	3.35	1.59	1 3/8	0.20	2 1/16	6 1/4	5 5/16	3 5/8	105.24	16.75
GE-90	1	1770	2655	13.600	1 3/8	3 1/2	9.65	3.94	1.77	1 5/16	0.22	2 7/16	7 7/8	6 5/16	3 15/16	283.29	28.70

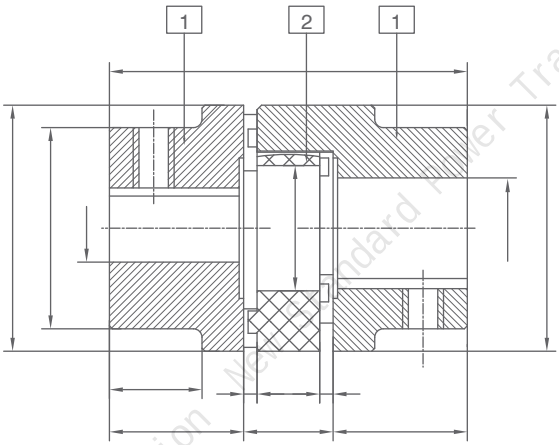
Order Form:

GE-42	GG25	Red	1	3/8	1a	1 1/8
GE-42	GG25	Yellow	1	3/8	1	1 1/8
Coupling Size	Material	Spider	Hub Design	Finish Bore	Hub Design	Finish Bore

Note: All items are in pilot bore, Finished bore can be provided according to customers' requirements

NSPT GE-Coupling





NSPT GE-COUPLING

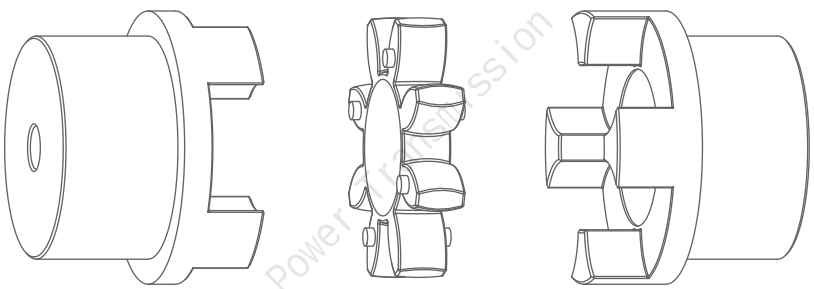
Material:GGG40

Catalog	Part	Elastomer Rating Moment			Collectivity Size(mm)										Moment of inertia Lb·in²	wt Lbs
		Yellow ft-lbs	Red ft-lbs	Moment of Inertia Lb·in²	Bore (d)		L	L_1	E	b	s	N	D_H	D	d_H	
					Pilot	Max										
GE-100	1	2434	3651	24	1 3/4	4 1/2	10.63	4.33	1.97	1 1/8	0.24	3 1/2	8 7/8	7 1/16	4 7/16	394	35.9
GE-110	1	3540	5310	51	2 1/4	5	11.61	4.72	2.17	1 5/8	0.26	3 3/4	10	7 7/8	5	707	51.2
GE-125	1	4904	7375	85	2 1/4	5 3/4	13.39	5.51	2.36	1 13/16	0.28	4 7/16	11 7/16	9	5 3/4	1388	76.2
GE-140	1	6306	9440	136	2 1/4	6 1/4	14.76	6.10	2.56	1 15/16	0.30	4 7/8	12 9/16	10	6 1/2	2520	103.4
GE-160	1	9440	14160	273	3	7 1/4	16.73	6.89	2.95	2 1/4	0.36	5 1/2	14 9/16	11 7/16	7 1/2	4924	105.5
GE-180	1	13754	20650	590	3 1/8	7 7/8	18.20	7.28	3.35	2 1/2	0.43	6 1/8	16 1/2	12 3/4	8 5/8	9008	231.3

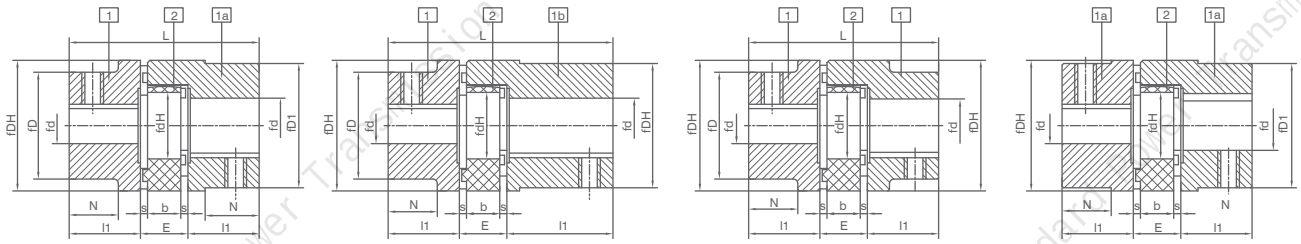
Order Form:

GE-125	GGG40	Yellow	1	2 1/8	1	2 5/8
Coupling size	Material	Spider	Hub design	Finish bore	Hub design	Finish bore

Note: All items are in pilot bore, Finished bore can be provided according to customers' requirements



NSPT GE-Coupling



NSPT GE-COUPLING

Material:Steel

Catalog	Part	Elastomer Rating Moment			Collectivity Size(mm)										Moment of Inertia Lb·in²	Wt lbs
		Yellow ft-lbs	Red ft-lbs	Moment of Inertia Lb·in²	Bore (d) Pilot	Bore (d) Max	L	l_1, l_2	E	b	s	N	D_H	D,D_1	d_H		
GE-19	1a	7.37	12.50	0.0102	-	1	2.60	0.98	0.63	1/2	0.08	-	19/16	19/16	11/16	0.164	0.39
	1b						3.54	1.46								0.232	0.49
GE-24	1a	25.80	44.25	0.0341	-	13/8	3.07	1.18	0.71	9/16	0.08	-	23/16	23/16	11/16	0.678	0.79
	1b						4.65	1.97								1.078	1.26
GE-28	1a	70.10	118.08	0.0682	-	19/16	3.54	1.38	0.79	5/8	0.10	-	29/16	29/16	13/16	1.562	1.37
	1b						5.51	2.36								2.558	2.19
GE-38	1	140.00	240.00	0.1700	-	17/8	4.49	1.77	0.94	3/4	0.12	11/16	31/8	23/4	11/4	3.458	2.46
	1b						6.46	2.76				-		31/8		6.854	3.94
GE-42	1	195.00	332.00	0.3410	-	21/8	4.96	1.97		13/16	0.12	11/8	33/4	33/5	113/16	8.400	3.34
	1b						6.93	2.95				-		33/4		15.260	6.25
GE-48	1	229.00	387.00	0.6820	-	27/16	5.51	2.20	1.02	13/16	0.14	11/4	41/8	33/4	2	13.787	4.60
	1b						7.40	3.15				-		41/8		23.830	8.67
GE-55	1	302.00	505.00	1.0230	-	215/16	6.30	2.56	1.18	7/8	0.16	17/16	43/4	41/16	23/8	27.160	6.96
	1b						8.20	3.54				-		43/4		44.610	13.06
GE-65	1	461.00	693.00	1.7050	-	31/8	7.28	2.95	1.38	1	0.18	17/8	55/16	41/2	211/16	43.430	10.62
	1b						9.28	3.04				-		55/16		81.740	19.08
GE-75	1	944.00	1416.00	6.8200	-	33/4	8.27	3.35	1.57	13/16	0.20	21/16	61/4	55/16	31/8	94.290	16.75
	1b						10.24	4.33				-		61/4		176.480	30.0
GE-90	1	1770.00	2655.00	13.6000	-	45/16	9.365	3.94	1.77	13/8	0.22	27/16	77/8	61/4	315/16	262.190	28.7
	1b						11.61	4.92				-		77/8		510.020	53.55

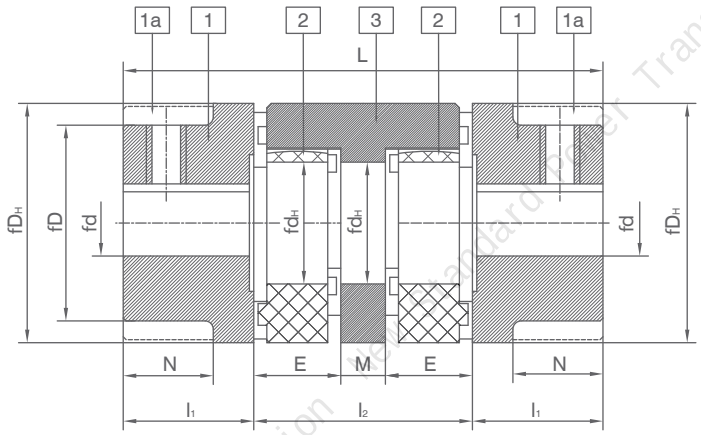
Order Form:

GE-24	Steel	Red	1a	3/8	1b	3/4
GE-24	Steel	Yellow	1a	—	1a	—
Coupling size	Material	Spider	Hub design	Finish bore	Hub design	Finish bore

Note: All items are in pilot bore, Finished bore can be provided according to customers' requirements

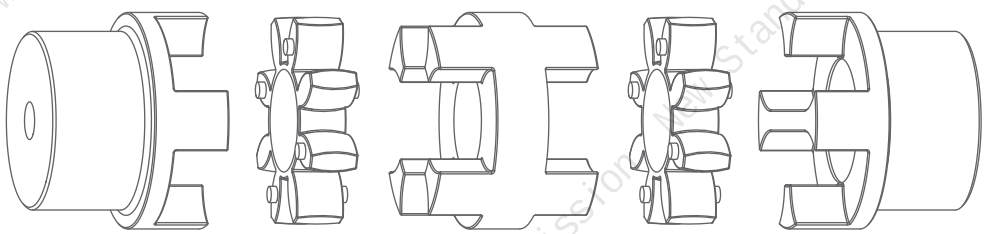
NSPT GEM-Coupling





NSPT GEM-COUPLING

Catalog	Part	Rating Moment ft-lbs		I_1	E	M	I_2	L	D_H	d_H		Max Displacement at n=1500 rpm		Max.Axial Displacement	Moment of Inertia Lb·in²	Wt Lbs
		Rating	Max									Radial	Angular			
GEM-19	3	7.375	14.75	0.98	0.63	3/8	1.65	3 5/8	1 9/16	11/16	The rest dimensions see GE-Coupling	0.025	1.5°	0.043	0.085	0.15
GEM-24	3	25.810	51.63	1 1/8	0.71	5/8	2.05	4 3/8	2 3/16	11/16		0.035		0.055	0.205	0.30
GEM-28	3	70.060	140.13	1.38	0.79	11/16	2.28	5.00	2 9/16	13/16		0.039		0.059	0.443	0.47
GEM-38	3	140.100	280.25	1.77	0.95	13/16	2.68	6 1/4	3 1/8	1 1/2		0.045		0.071	1.194	0.75
GEM-42	3	195.400	390.88	1.97	1.02	7/8	2.91	6 7/8	3 3/4	1 7/8		0.050		0.079	2.387	1.09
GEM-48	3	228.600	457.30	2.20	1.10	15/16	3.15	7 9/16	4 1/8	2		0.054		0.083	3.410	1.44
GEM-55	3	302.400	604.80	2.56	1.18	1 1/8	3.46	8 9/16	4 3/4	2 3/8		0.060		0.086	6.820	2.08
GEM-65	3	460.900	921.90	2.95	1.3/8	1 1/4	4.02	9.15	5 5/16	2 11/16		0.069		0.102	13.640	3.06
GEM-75	3	944.000	1888.00	3.35	1.57	1 7/16	4.57	11 1/4	6 1/4	3 3/16		0.079		0.118	30.690	4.71
GEM-90	3	1770.000	3540.00	3.94	1.77	1 9/16	5.12	13.0	7 7/8	3 15/16		0.098		0.134	85.250	8.50

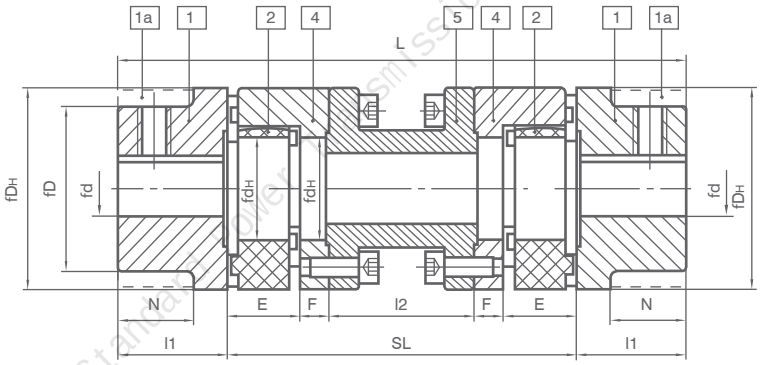


Order Form:

GEM-24	AL-D	Red	1a	—	1a	—
Coupling size	Material	Spider	Hub design	Finish bore	Hub design	Finish bore

Note: All items are in pilot bore, Finished bore can be provided according to customers' requirements

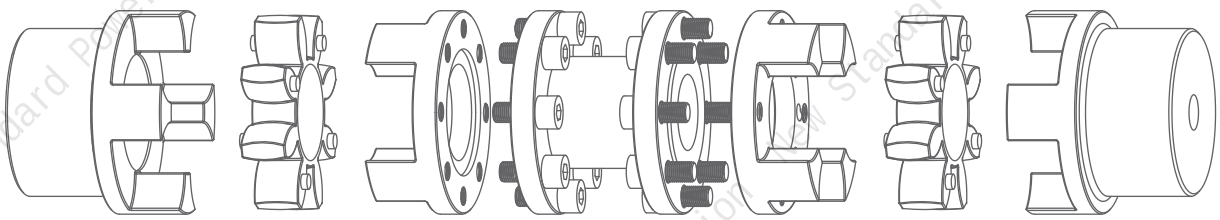
NSPT GEL-Coupling



- Torque is transmitted elastically, no need for maintenance.
- Lose efficacy protection
- Excellent vibration reducing capacity
- Relevant components utility time can be extended
- Double-connection structure, saving time for calibrating
- Decrease unbalanced degree, keep stability

NSPT GEL-COUPLING

Catalog	Rating Moment ft-lbs		l_1	E	F	L_2	L	D_H	d_H		Max.Radial Displacement when angular displacement is 1° and n=1500 rpm	Dismountable Length SL				Max.Axial Displacement	Internal Hexagon Head Bolt	
	Rating	Max										100	140	180	250		Size	QTY
GEL-24	25.81	51.63	1.18	0.71	0.31	SL-2(E+F)	SL+2 3/8	2 3/16	1 1/16	The rest dimensions see GE-Coupling		0.06				0.055	M5	16
GEL-28	70.06	140.13	1.38	0.79	0.30		SL+2 3/4	2 9/16	1 3/16			0.06				0.059	M6	16
GEL-38	140.10	280.25	1.77	0.95	0.39		SL+3 1/2	3 3/16	1 1/2				0.07			0.071	M8	16
GEL-42	195.40	390.88	1.97	1.02	0.47		SL+3 15/16	3 3/4	1 13/16				0.07			0.079	M8	24
GEL-48	228.60	457.30	2.20	1.10	0.47		SL+4 3/8	4 3/16	2				0.07			0.083	M8	24
GEL-55	302.40	604.80	2.56	1.18	0.63		SL+5 1/8	4 3/4	2 3/8					0.10	0.15	0.086	M10	16
GEL-65	460.90	921.90	2.95	1.38	0.63		SL+5 7/8	3 5/16	2 5/8						0.15	0.102	M10	24
GEL-75	944.00	1888.00	3.35	1.57	0.75		SL+6 5/8	6 3/8	3 3/16						0.15	0.118	M12	24
GEL-90	1770.00	3540.00	3.93	1.77	0.79		SL+7 7/8	7 7/8	4						0.15	0.134	M16	30



Order Form:

GEL-24	AL	140	Red	1a	—	1a	—
Coupling size	Material	Dismountable length	Spider	Hub design	Pilot bore	Hub design	Pilot bore

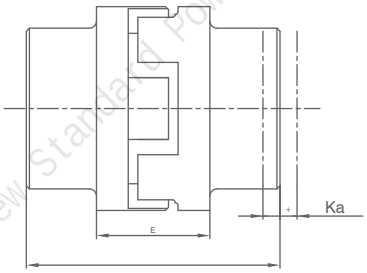
Note: All items are in pilot bore, Finished bore can be provided according to customers' requirements

Direction for Installation of GE Couplings

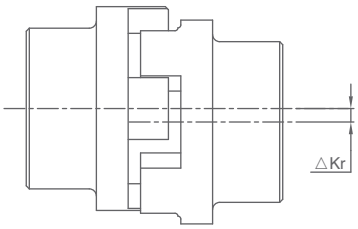
In normal condition, the working temperature for coupling body's elasticity is -40°C~ +110°C. The allowable maximum instant temperature is +120°C. The advantages of this type of couplings include the high wear/oil resistance and excellent internal buffer capacity for anti-overload protection. The yellow body applies to general mechanical transmission and the transmission in hydraulic pressure.

The red body applies to heavy load transmission with vibration absorbing and amortization features.

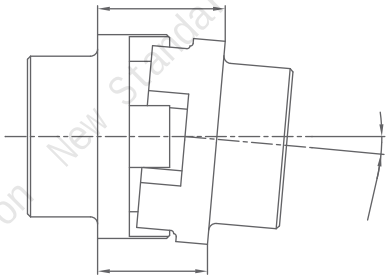
When practicing axial inserting type installation, dimension E must be guaranteed during installation. Tolerance caused by installation can then be minimized.



Axial Displacement



Radial Displacement

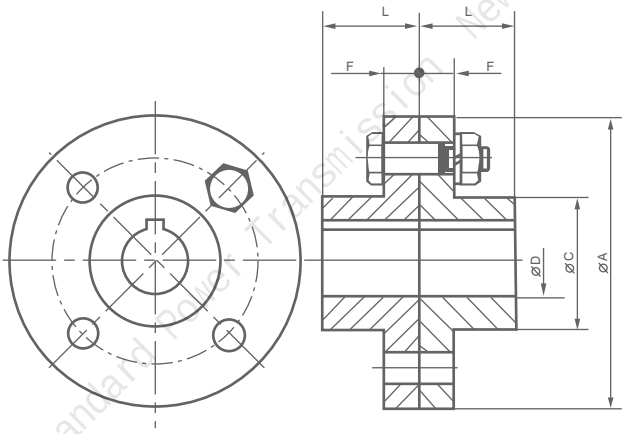

Augular Displacement

Coupling Size		GE-14	GE-19	GE-24	GE-28	GE-38	GE-42	GE-48	GE-55	GE-65	GE-75	GE-90	GE-100	GE-110	GE-125	GE-140	GE-160	GE-180
Max.Axial (mm) Displacement.(Ka)		-0.5 +1.0	-0.5 +1.2	-0.5 +1.4	-0.7 +1.5	-0.7 +1.8	-1.0 +2.0	-1.0 +2.1	-1.0 +2.2	-1.0 +2.6	-1.5 +3.0	-1.5 +3.4	-1.5 +3.8	-2.0 +4.6	-2.0 +4.6	-2.0 +5.0	-2.5 +5.7	-3.0 +6.4
Max.Radial (mm) Displacement.(Kr)		0.17	0.2	0.22	0.25	0.28	0.32	0.36	0.38	0.42	0.48	0.5	0.52	0.55	0.6	0.62	0.64	0.68
Max.Angular Displacement.(Kw)		1.2°	1.2°	0.9°	0.9°	1°	1°	1.1°	1.1°	1.2°	1.2°	1.2°	1.2°	1.3°	1.3°	1.2°	1.2°	
Wind-Up Angle	Nominal	6.4°	3.2°															
	Max	10°	5°															



NSPT FL-Coupling

NSPT Standard



Finished Bore



Special Notice

Special Notice: FL-coupling or FLS-coupling should be dynamically balanced according to degree Q6.3 when rotational speed in use reaches 1/2 of its limit .

Material can be GG25 and S45C and S45C. After surface is machined and phosphated, they are with high precision and good durablity in use.

NSPT FL-Coupling

Material:GG25

Catalog	Fundamental Dimensions						Bore		Max Torque (in-lb)	Max Revolution rpm	Number of Bolts n	Wt lbs
	A	L	c	B	F	a	Pilot Bore	Max Bore				
FL-40	4	17/16	15/8	25/8	5/8	3/8	—	1	558	4000	4	4.6
FL-44	43/8	19/16	2	3	5/8	3/8	—	11/8	797	4000	4	6.1
FL-50	5	13/4	23/16	33/8	23/32	9/16	—	11/4	1151	4000	4	8.5
FL-55	51/2	2	213/16	4	23/32	9/16	—	11/2	1947	4000	6	11.8
FL-63	63/8	23/16	31/8	49/16	23/32	9/16	—	13/4	3186	4000	8	15.8
FL-71	71/8	21/2	31/2	51/4	23/32	9/16	—	2	4425	3800	8	20.8
FL-79	77/8	213/16	4	53/4	7/8	3/4	11/16	23/16	6284	3550	8	32.4
FL-88	87/8	31/8	43/8	611/16	7/8	3/4	11/16	21/2	8850	3150	8	41.7
FL-100	10	31/2	5	71/8	11/8	1	3/4	213/16	12390	2800	8	60.4
FL-110	11	4	51/2	77/8	11/8	11/8	13/16	31/8	17700	2500	8	80.3
FL-124	123/8	43/8	61/4	93/8	11/8	11/8	11/4	31/2	24780	2240	10	108
FL-140	14	5	71/16	101/4	17/16	17/16	11/4	4	35400	2000	8	166
FL-158	153/4	5	77/8	117/8	17/16	17/16	2	43/8	46905	1800	10	210
FL-180	173/4	51/2	813/16	14	17/16	17/16	23/8	5	66375	1600	12	276
FL-220	22	61/4	97/8	173/4	17/16	17/16	31/8	51/2	97350	1250	14	417
FL-250	247/8	71/16	11	207/8	17/16	17/16	31/2	61/4	141600	1120	18	551

Keyway dimensions conform to DIN 6885, JIS B 1310-1976, UNI 6604-1969,USAS B17.1-1967 GB 1095-1979 standards.

FL/FLS-158-21/4

- Bore(inch)
- Outside Diameter of Coupling (inchx10)
- NSPT FL/FLS-Coupling Made of GG25 or S45C

NSPT FLS-Coupling

NSPT Standard

NSPT FLS-Coupling

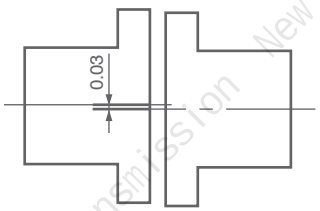
Material:S45C

Catalog	Fundamental Dimensions						Bore		Max Torque (In-Lb)	Max Revolution rpm	Number of Bolts n	Wt Lbs
	A	L	c	B	F	a	Pilot Bore	Max Bore				
FLS-44	43/8	19/16	2	3	5/8	3/8	1/2	13/16	974	6000	4	6.0
FLS-50	5	13/4	23/16	33/8	23/32	9/16	1/2	13/8	1505	6000	4	8.3
FLS-55	51/2	2	213/16	4	23/32	9/16	1/2	15/8	2655	6000	6	11.4
FLS-63	63/8	23/16	31/8	49/16	23/32	9/16	9/16	17/8	3983	6000	8	15.4
FLS-71	71/8	21/2	31/2	51/4	23/32	9/16	9/16	23/16	5576	5700	8	20.1
FLS-79	77/8	213/16	4	53/4	7/8	3/4	11/16	23/8	7523	5200	8	31.5
FLS-88	87/8	31/8	43/8	611/16	7/8	3/4	11/16	23/4	12390	4700	8	39.8
FLS-100	10	31/2	5	71/8	11/8	1	3/4	3	14160	4200	8	59.4
FLS-110	11	4	51/2	77/8	11/8	11/8	13/16	35/16	22150	3750	8	78.4
FLS-124	123/8	43/8	61/4	93/8	11/8	11/8	11/4	315/16	35400	3350	10	103
FLS-140	14	5	71/16	101/4	17/16	17/16	11/4	45/16	44250	3000	8	160
FLS-158	153/4	5	77/8	117/8	17/16	17/16	2	415/16	66375	2650	10	198
FLS-180	173/4	51/2	813/16	14	17/16	17/16	23/8	51/2	96750	2360	10	262
FLS-220	22	61/4	97/8	173/4	17/16	17/16	31/8	515/16	123900	1900	10	408
FLS-250	247/8	71/16	11	207/8	17/16	17/16	31/2	69/16	177000	1670	10	539

Keyway dimensions conform to DIN 6885, JIS B 1310-1976, UNI 6604-1969, GB 1095-1979 standards.

Direction of Installation:

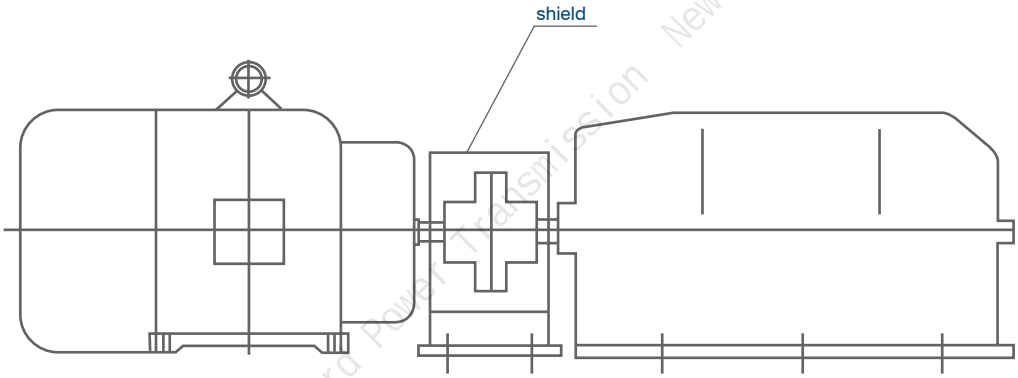
1.When installing couplings, the concentrictiy between the center lines of the bores of the two half couplings should be within 0.03.



parallel misalignment



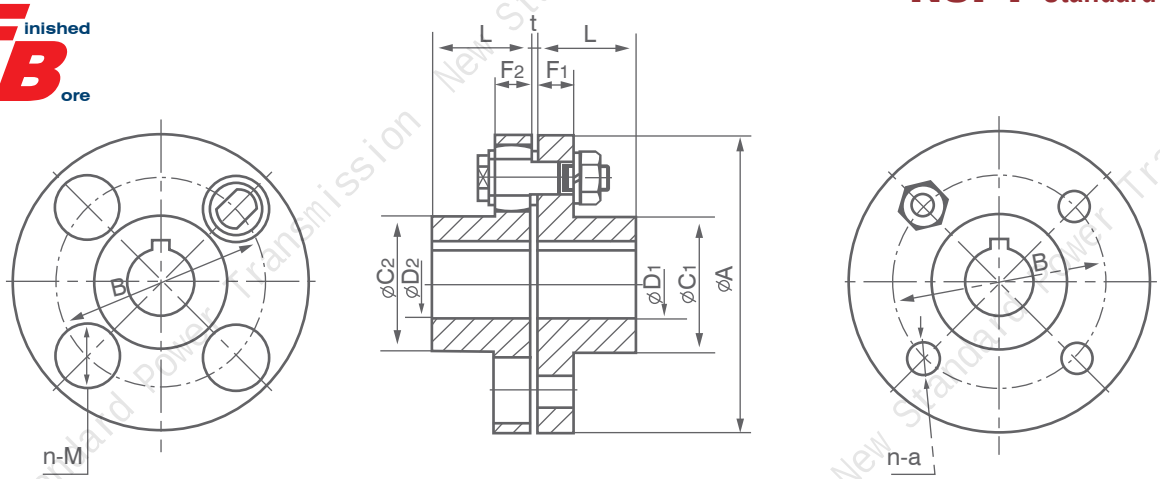
2.When using the couplings, safety device must be provided.



NSPT EL-Coupling

NSPT Standard

Finished Bore



Material can be GG25 and S45C and S45C. After surface is machined and phosphated, they are with high precision and are durable in use.



Special Notice

Special Notice: EL-coupling or ELS-coupling should be dynamically balanced according to degree Q6.3 when rotational speed reaches 1/2 of its limit in use.

NSPT EL-COUPLING

Material:GG25

Catalog	Fundamental Dimensions										Bore		Max Torque (In-Lb)	Max Revolution (r/Pm)	Number of Bolts (n)	Wt Lbs
	A	L	B	a	M	t	C		F		Pilot Bore	Max Bore				
							C_1	C_2	F_1	F_2						
EL-35	3 9/16	1 1/8	2 3/8	5/16	3/4	0.118	1 7/16		9/16		—	3/4	133	4000	4	2.8
EL-40	4	1 7/16	2 5/8	3/8	7/8	0.118	1 11/16		5/8		—	1	257	4000	4	4.1
EL-44	4 3/8	1 9/16	2 15/16	3/8	7/8	0.118	2		5/8		—	1 1/8	292	4000	4	5.4
EL-50	5	1 3/4	3 3/8	9/16	1 1/4	0.118	2 3/16	2	11/16		—	1 1/8	646	4000	4	7.4
EL-55	5 1/2	2	4	9/16	1 1/4	0.118	2 13/16	2 1/2	11/16		—	1 3/8	1151	4000	6	10.0
EL-63	6 3/8	2 3/16	4 1/2	9/16	1 1/4	0.118	3 1/8		11/16		—	1 3/4	1770	4000	8	13.8
EL-71	7 1/8	2 1/2	5 3/16	9/16	1 1/4	0.118	3 1/2		11/16		—	2	2036	3500	8	18.5
EL-79	7 7/8	2 13/16	5 11/16	3/4	1 5/8	0.157	4		7/8		11/16	2 3/16	3894	3200	8	28.7
EL-88	8 7/8	3 1/8	6 5/8	3/4	1 5/8	0.157	4 3/8		7/8		11/16	2 1/2	4514	2850	8	37.3
EL-100	10	3 1/2	7 1/16	1	2	0.157	5		1 1/8		3/4	2 13/16	7524	2550	8	54.8
EL-110	11	4	7 7/8	1 1/8	2 1/4	0.157	5 1/2		1 1/8	1 9/16	1 3/16	3 1/8	13275	2300	8	77.1
EL-124	12 3/8	4 3/8	9 3/8	1 1/8	2 1/4	0.157	6 1/4		1 1/8	1 9/16	1 1/4	3 1/2	19470	2050	10	104
EL-140	14	5	10 1/4	17/16	2 7/8	0.197	7 1/16		17/16	2 3/16	1 1/4	4	30975	1800	8	163
EL-158	15 3/4	5	11 7/8	17/16	2 7/8	0.197	7 7/8		17/16	2 3/16	2	4 5/16	44250	1600	10	206
EL-180	17 3/4	5 1/2	14	17/16	2 7/8	0.197	8 7/8		17/16	2 3/16	2 3/8	5	62835	1400	12	272
EL-220	22	6 1/4	17 3/4	17/16	2 7/8	0.197	10		17/16	2 3/16	3 1/8	5 1/2	88500	1150	14	426
EL-250	24 7/8	7 1/16	20 7/8	17/16	2 7/8	0.197	11		17/16	2 3/16	3 1/2	6 3/8	141600	1000	18	559
EL-280	28	8 13/16	23 5/8	17/16	2 7/8	0.197	12 3/8		2 3/16		4 5/16	7 1/16	221250	900	24	876
EL-281	28	9 7/8	22 7/8	1 3/4	3 7/16	0.276	14		3 1/8		4 11/16	7 7/8	300900	900	20	1212
EL-315	31 1/2	10 7/16	26 3/8	1 3/4	3 7/16	0.276	14 3/4		3 1/8		5 1/8	8 1/4	398250	800	22	1536

Keyway dimensions conform to DIN 6885, JIS B 1310-1976, UNI 6604-1969,USAS B17.1-1967,USAS B17.1-1967 GB 1095-1979 standards.

NSPT ELS-Couplings

NSPT Standard

ELS-Coupling

Material: S45C

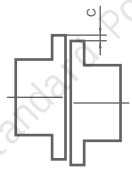
Catalog	Fundamental Dimensions										Bore		Max Torque (In-Lb)	Max Revolution (rpm)	Bolts (n)	Wt Lbs
	A	L	B	a	M	t	C		F		Pilot	Max				
							C_1	C_2	F_1	F_2						
ELS-44	4 3/8	1 9/16	2 15/16	3/8	7/8	0.118	2		5/8		1/2	1 3/16	292	6,000	4	5.7
ELS-50	5	1 3/4	3 3/8	9/16	1 1/4	0.118	2 3/16	2	11/16		1/2	1 3/8	646	6,000	4	7.8
ELS-55	5 1/2	2	4	9/16	1 1/4	0.118	2 13/16	2 1/2	11/16		1/2	1 1/2	1151	6,000	6	10.4
ELS-63	6 3/8	2 3/16	4 1/2	9/16	1 1/4	0.118	3 1/8		11/16		9/16	1 7/8	1770	6,000	8	14.4
ELS-71	7 1/8	2 1/2	5 3/16	9/16	1 1/4	0.118	3 1/2		11/16		9/16	2 1/8	2036	5,250	8	19.0
ELS-79	7 7/8	2 13/16	5 11/16	3/4	1 5/8	0.157	4		7/8		11/16	2 3/8	3894	4,800	8	29.7
ELS-88	8 7/8	3 1/8	6 5/8	3/4	1 5/8	0.157	4 3/8		7/8		11/16	2 3/4	4514	4,300	8	37.9
ELS-100	10	3 1/2	7 1/16	1	2	0.157	5		1 1/8		3/4	2 15/16	7523	3,800	8	57.3
ELS-110	11	4	7 7/8	1 1/8	2 1/4	0.157	5 1/2		1 1/8	1 9/16	1 3/16	3 5/16	13275	3,450	8	80.2
ELS-124	12 3/8	4 3/8	9 3/8	1 1/8	2 1/4	0.157	6 1/4		1 1/8	1 9/16	1 1/4	4	19470	3,050	10	106
ELS-140	14	5	10 1/4	17/16	2 7/8	0.197	7 1/16		17/16	2 3/16	1 1/4	4 5/16	30975	2,700	8	168
ELS-158	15 3/4	5	11 7/8	17/16	2 7/8	0.197	7 7/8		17/16	2 3/16	2	5	44250	2,400	10	210
ELS-180	17 3/4	5 1/2	14	17/16	2 7/8	0.197	8 7/8		17/16	2 3/16	2 3/8	5 1/2	62835	2,150	12	278
ELS-220	22	6 1/4	17 3/4	17/16	2 7/8	0.197	10		17/16	2 3/16	3 1/8	5 7/8	88500	1,700	14	445
ELS-250	24 7/8	7 1/16	20 7/8	17/16	2 7/8	0.197	11		17/16	2 3/16	3 1/2	6 5/8	141600	1,500	18	585

Keyway dimensions conform to DIN 6885, JIS B 1310-1976, UNI 6604-1969, GB 1095-1979 standards.

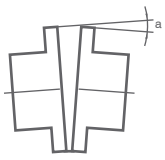


Conceptual Diagrams For Installing Error

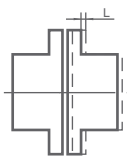
Catalog	Error of Eccentricity (in.)	Error of Angularity (°)	Error of Shaft End-play (in.)
EL90-125	0.004	0.17	±0.083
EL140-180	0.008	0.17	±0.083
EL200-250			±0.110
EL280-315	0.012	0.17	±0.110
EL355-710			±0.138
EL711-800			±0.193



Parallel Misalignment



Angular Misalignment



End floating

1. When flange outside diameter fits tightly without gap, set the center of the drive and the driven shaft precisely.

2. To maintain rubber bush for a long time, keep the installing error to the minimum.

3. The value of 't' is equivalent to the thickness of washer.

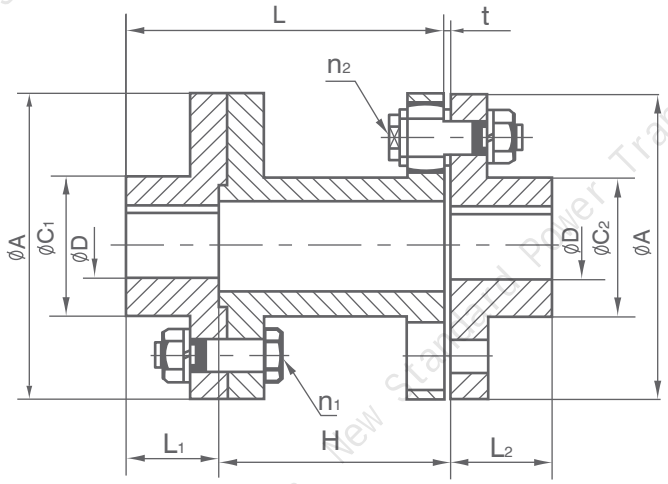
EL/ELS-124-11/2

- Bore
- Outside diameter of coupling
- NSPT ELS-coupling made of GG25 or S45C

NSPT GL-Coupling

NSPT Standard





NSPT GL-COUPLING

material:GG25

Catalog A X H	Fundamental Dimensions						Bore		n		Max Torque (In-Lb)	Max Revolution (rPm)	wt Lbs
	L	L1	c1	L2	c2	t	pilot	Max	n1	n2			
GL44x40	5 1/4	1 7/16	2	1 9/16	2	0.118	—	1 1/8	4	4	292	4000	11.4
GL50x40	5 7/16	1 5/8	2 3/16	1 3/4	2 3/16	0.118	—	1 1/4	4	4	646	4000	15.4
GL55x40	5 11/16	1 7/8	2 13/16	2	2 13/16	0.118	—	1 1/2	6	6	1150	4000	20.4
GL55x55	7 1/4	1 7/8	2 13/16	2	2 13/16	0.118	—	1 1/2	6	6	1150	4000	21.6
GL63x40	5 15/16	2 1/16	3 1/8	2 3/16	3 1/8	0.118	—	1 3/4	8	8	1770	4000	26.4
GL63x55	7 1/2	2 1/16	3 1/8	2 3/16	3 1/8	0.118	—	1 3/4	8	8	1770	4000	28.0
GL71x40	6 3/16	2 3/8	3 1/2	2 1/2	3 1/2	0.118	—	2	8	8	2036	3500	34.2
GL71x55	7 3/4	2 3/8	3 1/2	2 1/2	3 1/2	0.118	—	2	8	8	2036	3500	36.1
GL71x63	9 5/16	2 3/8	3 1/2	2 1/2	3 1/2	0.118	—	2	8	8	2036	3500	37.9
GL79x55	8	2 5/8	4	2 13/16	4	0.157	11/16	2 3/16	8	8	3894	3200	55.1
GL79x71	9 9/16	2 5/8	4	2 13/16	4	0.157	11/16	2 3/16	8	8	3894	3200	57.3
GL79x79	11 3/16	2 5/8	4	2 13/16	4	0.157	11/16	2 3/16	8	8	3894	3200	59.6
GL88x55	8 3/8	3	4 3/8	3 1/8	4 3/8	0.157	11/16	2 1/2	8	8	4524	2850	69.9
GL88x71	9 15/16	3	4 3/8	3 1/8	4 3/8	0.157	11/16	2 1/2	8	8	4524	2850	72.8
GL88x87	11 1/2	3	4 3/8	3 1/8	4 3/8	0.157	11/16	2 1/2	8	8	4524	2550	75.7
GL100x55	8 3/4	3 3/8	5	3 1/2	5	0.157	3/4	2 3/4	8	8	7523	2550	102
GL100x71	10 5/16	3 3/8	5	3 1/2	5	0.157	3/4	2 3/4	8	8	7523	2550	106
GL100x87	11 7/8	3 3/8	5	3 1/2	5	0.157	3/4	2 3/4	8	8	7523	2550	110
GL100x100	13 7/16	3 3/8	5	3 1/2	5	0.157	3/4	2 3/4	8	8	7523	2550	114
GL110x71	10 11/16	3 3/4	5 1/2	4	5 1/2	0.157	1 3/16	3 1/8	8	8	13275	2300	143
GL110x87	12 1/4	3 3/4	5 1/2	4	5 1/2	0.157	1 3/16	3 1/8	8	8	13275	2300	148
GL110x100	13 7/8	3 3/4	5 1/2	4	5 1/2	0.157	1 3/16	3 1/8	8	8	13275	2300	153
GL110x118	15 7/16	3 3/4	5 1/2	4	5 1/2	0.157	1 3/16	3 1/8	8	8	13275	2300	158
GL124x71	11 3/16	4 1/4	6 1/4	4 3/8	6 1/4	0.157	1 1/4	3 1/2	10	10	19470	2050	186
GL124x87	12 3/4	4 1/4	6 1/4	4 3/8	6 1/4	0.157	1 1/4	3 1/2	10	10	19470	2050	193
GL124x100	14 3/8	4 1/4	6 1/4	4 3/8	6 1/4	0.157	1 1/4	3 1/2	10	10	19470	2050	200
GL124x118	15 29/32	4 1/4	6 1/4	4 3/8	6 1/4	0.157	1 1/4	3 1/2	10	10	19470	2050	200

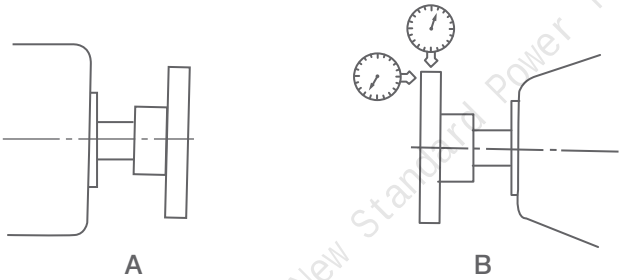
Keyway dimensions conform to DIN 6885, JIS B 1310-1976, UNI 6604-1969,USAS B17.1-1967 GB 1095-1979 standards.

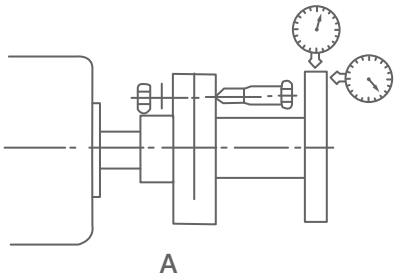
NSPT GL-Couplings

NSPT Standard

Conceptual Diagrams for Installation

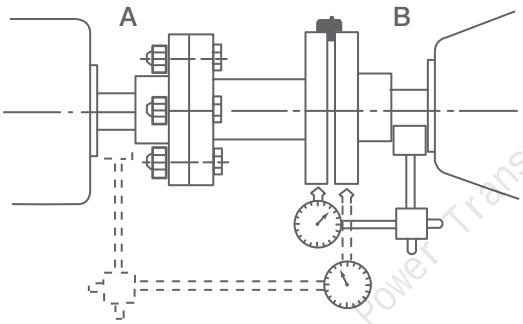
Install side A and side B of GL-coupling on the transmitting shafts of primary engine and secondary engine separately. Correct their locations till the run out is under 0.03mm.





Install the connection tube on the coupling of the primary engine and fix the bolts, nuts and spacer. Correct the location till the run out is under 0.05mm.

Keep the flange of GL-coupling on the secondary engine in line with the shaft center of the connecting tube flange. A relevant gap is necessary. Correct the relevant locations till the tolerances fall within the maximum data allowed by GL-Coupling installation.



Using material GG25.
After surface is machined and phosphated, the coupling will have high precision and good durability.

Special Notice:

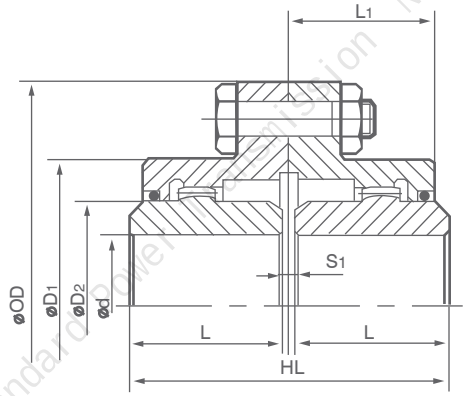
GL-coupling should be dynamically balanced according to the degree Q6.3 when rotational speed reaches 1/2 of its working limit.

GL 44 X 40

- 40 — Length of connecting tube
- 44 — Outside diameter of GL-coupling
- GL — NSPT GL-coupling with added length

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

- **Maximum outside diameter**
- **GRL-Couplings**

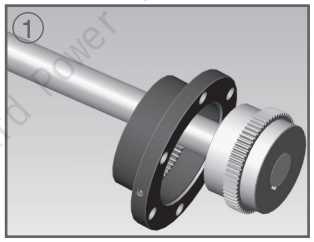
NSPT GRL-Coupling

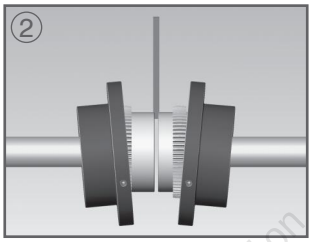
NSPT Standard

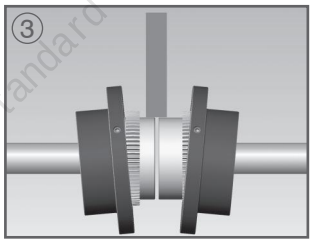
Instruction for Installation:

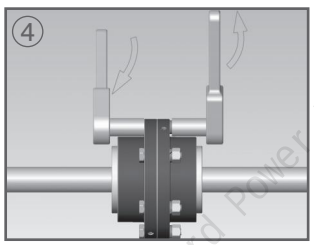


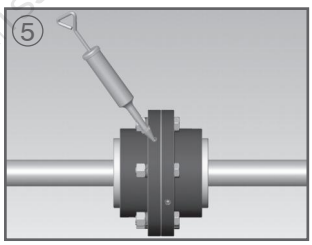
1. Clean all parts. Grease the crowned gear teeth and 0-Ring. Put O-Ring onto the shafts.
2. Place the flanged sleeves on the shafts and mount the hubs.
3. Using a spacer bar to make a gap between the hubs equal to the normal gap as specified.
4. Align the shaft with a straight bar, check every 90 degree 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.







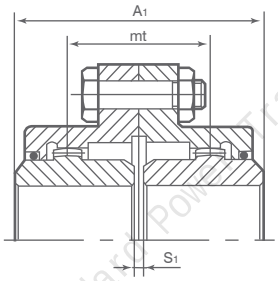




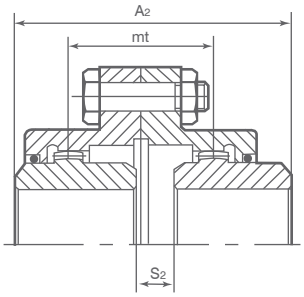
NSPT GRL-Coupling

NSPT Standard

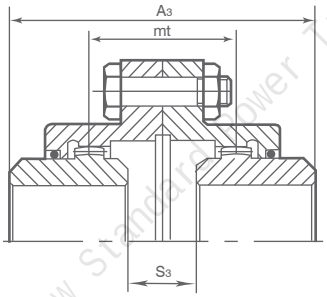
Installation for GRL-Coupling



Type 1



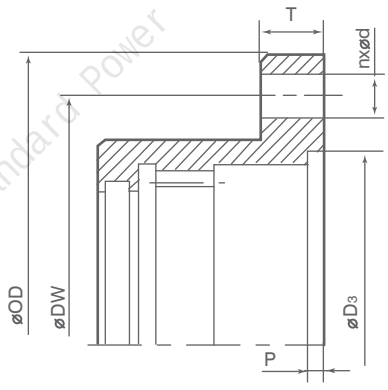
Type 2



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	17/32
GRL-250	3 11/16	6 3/16	6 17/32	7 1/8	3/16	21/32	15/32
GRL-300	4 5/16	7 9/32	7 27/32	8 3/8	3/16	3/4	19/32
GRL-350	5 1/32	8 1/2	9 3/16	9 27/32	1/4	7/8	19/16
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

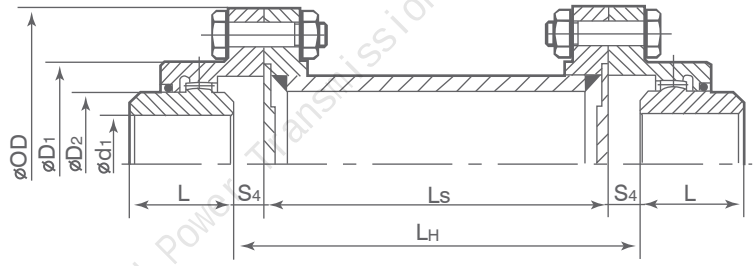
Dimensions for the flange with teeth



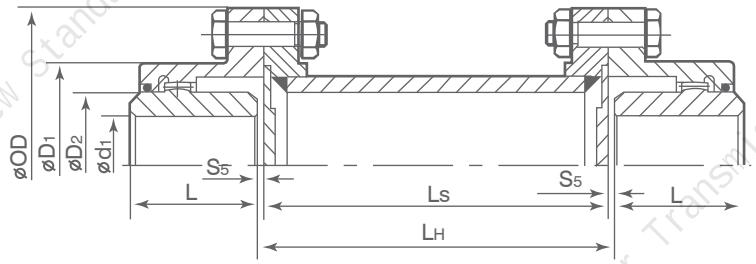
Catalog	O.D	DW	D3	P	T	n	d
GRL-100	4 9/16	3 13/16	2 7/8	0.138	9/16	6	3/8
GRL-150	6	4 13/16	3 3/4	0.138	3/4	8	7/16
GRL-200	7	5 15/16	4 17/32	0.138	3/4	6	1/2
GRL-250	8 3/8	7 1/4	5 19/32	0.138	7/8	6	21/32
GRL-300	9 7/16	8 3/16	6 5/8	0.138	7/8	8	21/32
GRL-350	11	9 9/16	7 1/2	0.138	1 1/8	8	13/16
GRL-400	12 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

NSPT GSL-Coupling

NSPT Standard









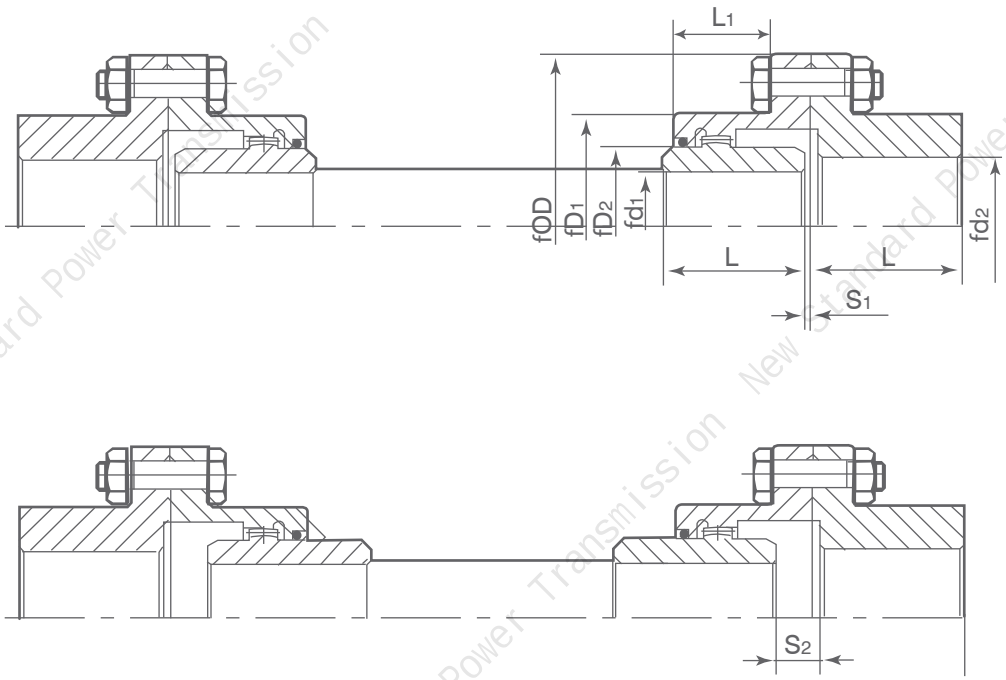
NSPT GSL-COUPLING

Catalog	Fundamental Dimensions						Bore		Max Torque (In-Lb)	Max revolution (rpm)	Ls Min	wt Lbs
	OD	D2	D1	L	S4	S5	Min	Max				
GSL-100	4 9/16	2 1/4	3 1/8	1 11/16	7/32	1/16	9/16	1 1/2	7523	6000	2 15/16	27.8
GSL-150	6	3 1/8	3 15/16	1 15/16	9/32	1/16	3/4	2 1/8	15045	5500	3 5/16	47.4
GSL-200	7	3 7/8	4 15/16	2 7/16	5/8	1/16	1	2 3/4	28763	5000	3 3/4	53.6
GSL-250	8 3/8	4 5/8	5 7/8	3 1/32	9/16	3/32	1 3/8	3 3/8	53100	4400	4	113
GSL-300	9 7/16	5 1/2	6 7/8	3 19/32	21/32	3/32	1 3/4	4	88500	4000	4 5/16	167
GSL-350	11	6 1/2	7 29/32	4 1/8	25/32	1/8	2 1/8	4 5/8	141600	3500	4 15/16	241
GSL-400	12 1/2	7 3/8	9 1/4	4 3/4	13/16	1/8	2 9/16	5 1/2	208860	3000	4 15/16	332
GSL-450	13 5/8	8 3/8	10 3/8	5 5/16	1	5/32	3 1/8	6 1/4	287625	2700	4 15/16	400
GSL-500	15 5/16	9 5/16	11 9/16	5 29/32	1 1/8	5/32	3 1/2	7	420375	2500	5 11/16	555
GSL-550	16 3/4	10 3/8	12 13/16	6 29/32	1 3/8	5/32	4	7 7/8	592950	2200	5 11/16	738
GSL-600	18 1/8	11 7/16	13 1/11	7 15/32	1 21/32	5/32	4 3/4	8 5/8	796500	2100	5 11/16	858
GSL-700	20 7/8	13 1/8	15 3/4	8 11/16	1 1/2	3/16	5 7/8	9 3/4	1106250	2000	5 11/16	1171

To assemble, keyways must be sealed off to prevent lubricant discharge.
Keyway dimensions conform to DIN 6885, JIS B 1310-1976, UNI 6604-1969,USAS B17.1-1967 GB 1095-1979 standards.

NSPT GWL-Coupling

NSPT Standard



NSPT GWL-COUPLING

Catalog	Fundametal Dimensions						Bore				Max Torque (N.m)	Max Revolutm (rpm)	Wt kg
							d1		d2				
	OD	D2	D1	L	S1	S2	min	max	min	max			
GWL-100	4 9/16	2 1/4	3 1/8	1 11/16	1/8	9/32	9/16	1 1/2	9/16	2 1/8	2523	6000	10
GWL-150	6	3 1/8	3 15/16	1 15/16	1/8	11/32	3/4	2 1/8	3/4	2 3/4	15045	5500	18
GWL-200	7	3 7/8	4 15/16	2 7/16	1/8	21/32	1	2 3/4	1	2 3/4	28763	5000	33
GWL-250	8 3/8	4 5/8	5 7/8	3 1/32	3/16	21/32	1 3/8	3 3/8	1 3/8	4 5/16	53100	4400	57
GWL-300	9 7/16	5 1/2	6 7/8	3 19/32	3/16	3/4	1 3/4	4	1 3/4	4 15/16	88500	4000	85
GWL-350	11	6 1/2	7 29/32	4 1/8	1/4	7/8	2 1/8	4 5/8	2 1/8	5 1/2	141600	3500	130
GWL-400	12 1/2	7 3/8	9 1/4	4 3/4	1/4	15/16	2 9/16	5 1/2	2 9/16	6 5/8	208860	3000	192
GWL-450	13 5/8	8 3/8	10 3/8	5 5/16	5/16	1 1/8	3 1/8	6 1/4	3 1/8	7 1/2	287625	2700	261
GWL-500	15 5/16	9 5/16	11 9/16	5 29/32	5/16	1 1/4	3 1/2	7	3 1/2	8 1/4	420375	2500	376
GWL-550	16 3/4	10 3/8	12 13/16	6 29/32	5/16	1 17/32	4	7 7/8	4	9	592950	2200	474
GWL-600	18 1/8	11 7/6	13 1/4	7 15/32	5/16	1 13/16	4 3/4	8 5/8	4 3/4	9 3/4	796500	2100	604
GWL-700	20 7/8	13 1/8	15 3/4	8 11/16	3/8	1 21/32	5 7/8	9 3/4	5 7/8	11 3/8	1106250	2000	902

To assemble, keyways must be sealed off to prevent lubricant discharge.
Keyway dimensions conform to DIN 6885, JIS B 1310-1976, UNI 6604-1969, USAS B 17.1-1967 GB 1095-1979 standards.

NSPT GSL-Coupling

1. Suggestions for Choosing Couplings

1) Mechanical Characteristics

Couplings should be selected based on the characteristics of power machines. They are used to adjust the natural frequency of shafts, reduce the twisting vibration of the amplitude, improve the stability of output power, and increase the lifetime of transmission parts.

2) Load Classifications

The main classifications of loads are: shocking, vibration, forward-backward turning, breakings, starting frequency, etc. They are the basic factors for choosing couplings. Flexible couplings should be used for the working loads such as shocking, vibration and obviously torque changing in order to improve the working function of the system. In low speed and heavy load working modes, avoid middle or low power. Torque should be several times larger than normal working load in case of forward-backward turning, braking or frequent starting. The loads of metal flexible-elements are higher than those of non-metal flexible elements.

3) Allowable Rotational Speed of Couplings

The allowable rotational speed of a coupling is decided by its material. The allowable rotational speed of steel is higher than cast iron. High rotational speed requires dynamic balance.

4) Relative Displacement Between Two shafts Combined By Couplings

Normally the relative displacement between two shafts can't be avoided. Different flexible couplings should be adopted based on relative displacements of shaft direction, axal direction and/or angular direction. Steel couplings may be used only for high precision.

5) Transmission Precision of Couplings

If the transmission is used for transferring movement, the couplings are required to provide high precision. However, if the transmission is used for transferring power only, lower transmission precision is fine.

6) Coupling Dimensions, Installation and Maintenance

The dimension of couplings must be fitted with the installation space of the machine. When choosing the right couplings, take into account the ease of installation, maintenance, replacement and the adjustment for concentricity.

7) Working Condition

The surroundings must meet the work conditions of the selected couplings to ensure their expected lifetime.

8) Economical Advantage

Everything being equal, the low-cost couplings are the optimal and economical choice.

2. Torque As the Key Element for Choosing the Right Couplings

$T=9550 \times Pw/n$ Pw=power of driving machine

n=rotational speed of driving machine

The theoretical torque (T) can be got from above formula. The torque $Tc=K1 * T$ can be calculated after choosing the working coefficient K1 (see the tableon next page; temperature coefficient K2, starting coefficient K3 should be taken into consideration if necessary). Choosing a similar sized torque from standard values to ensure $T \leqslant Tc \leqslant Tn$. Finding the allowable torque (n) of couplings to ensure $n \leqslant (n)$. In order to meet the diameters of the driving and driven shaft of the moving sides, adjust the size of couplings accordingly. When the driving and driven shaft diameters of the moving sides are different, couplings should be chosen according to the larger one. After choosing the coupling, the strength of shafts and keys should be checked and calculated again to make sure the right sized coupling and the right type of key joint have been selected.

NSPT-Couplings

Table of Working Condition Coefficient

Prime Mover		Working Machine					
		I	II	III	IV	V	VI
Motor, Steam Turbine		1.3	1.5	1.7	1.9	2.3	3.1
Explosion Engine	Four Cylinders and Above	1.5	1.7	1.9	2.1	2.5	3.3
	Two cylinders	1.8	2.0	2.2	2.4	2.8	3.6
	Single cylinder	2.2	2.4	2.6	2.8	3.2	4.0

Classification of Working Machines:

I : Torque Changes Very Slightly: motor-generator, small type of ventilator, small type of centrifugal, etc.

II : Torque Changing Slightly: turbo-compressor, wood lathe, conveyor, etc.

III : Torque Changes Normally: mixer, boast pump, flywheel reciprocation compressor, etc.

IV : Normal Torque Changing and Normal Impact Load: weaving machine, cement mixer, etc.

V : Large Torque Changing and Heavy Impact Load: printing machine, crane, stone crusher, etc.

VI : Torque Changing Largely and Serious Impact Load: rolling mill, heavy type of cogging mill, etc.





New Standard Power Transmission