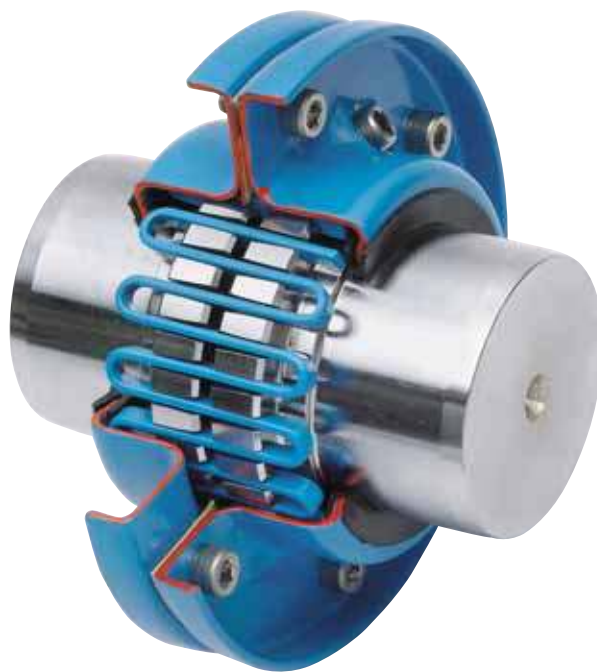


TAPER GRID COUPLING



Service Factors

Grid Coupling Service Factors for Motor ♦ and Turbine Drives

Service factors listed are typical values based on normal operation of the drive systems.

Alphabetical listing of applications

Service Factor	Service Factor
AERATOR2.0	Welder Load.....2.0
AGITATORS	HAMMERMILL1.75
Vertical and Horizontal	LAUNDRY WASHER OR
Screw, Propeller, Paddle.....1.0	TUMBLER2.0
BARGE HAUL PULLER1.5	LINE SHAFTS
BLOWERS	Any Processing Machinery.....1.5
Centrifugal.....1.0	MACHINE TOOLS
Lobe or Vane.....1.25	Auxiliary and Traverse Drive.....1.0
CAR DUMPERS2.5	Bending Roll, Notching Press,
CAR PULLERS1.5	Punch Press, Planer, Plate
CLARIFIER OR CLASSIFIER1.0	Reversing.....1.75
COMPRESSORS	Main Drive.....1.5
Centrifugal.....1.0	MAN LIFTSNot Approved
Rotary, Lobe or Vane.....1.25	METAL FORMING MACHINES
Rotary, Screw.....1.0	Continuous Caster.....1.75
Reciprocating	Draw Bench Carriage and
Direct Connected.....Refer to Factory	Main Drive.....2.0
Without Flywheel.....Refer to Factory	Extruder.....2.0
*With Flywheel and Gear	Forming Machine and
between Compressor	Forming Mills.....2.0
and Prime Mover.....3.0	Slitters.....1.0
1 cylinder, single acting.....3.0	Wire Drawing or Flattening.....1.75
1 cylinder, double acting.....3.0	Wire Winder.....1.5
2 cylinders, single acting.....3.0	Coilers and Uncoilers.....1.5
2 cylinders, double acting.....3.0	MIXERS (see Agitators)
3 cylinders, single acting.....3.0	Concrete.....1.75
3 cylinders, double acting.....2.0	Muller.....1.5
4 or more cyl., single act.....1.75	PRESS, PRINTING1.5
4 or more cyl., double act.....1.75	PUG MILL1.75
CONVEYORS	PULVERIZERS
Apron, Assembly, Belt, Chain,	Hammermill and Hog.....1.75
Flight, Screw.....1.0	Roller.....1.5
Bucket.....1.25	PUMPS
Live Roll, Shaker and	Boiler Feed.....1.5
Reciprocating.....3.0	Centrifugal —
CRANES AND HOIST	Constant Speed.....1.0
Main Hoist.....1.75▲	Frequent Speed Changes
Skip Hoist.....1.75▲	under Load.....1.25
Slope.....1.5	Descaling, with accumulators.....1.25
Bridge, Travel or Trolley.....1.75	Gear, Rotary, or Vane.....1.25
DYNAMOMETER1.0	Reciprocating, Plunger Piston
ELEVATORS	1 cyl., single or double act.....3.0
Bucket, Centrifugal Discharge.....1.25	2 cyl., single acting.....2.0
Freight or Passenger.....Not Approved	2 cyl., double acting.....1.75
Gravity Discharge.....1.25	3 or more cylinders.....1.5
ESCALATORSNot Approved	Screw Pump, Progressing Cavity.....1.25
EXCITER, GENERATOR1.0	Vacuum Pump.....1.25
EXTRUDER, PLASTIC1.5	SCREENS
FANS	Air Washing.....1.0
Centrifugal.....1.0	Grizzly.....2.0
Cooling Tower.....2.0	Rotary Coal or Sand.....1.5
Forced Draft — Across the	Vibrating.....2.5
Line start.....1.5	Water.....1.0
Forced Draft Motor	SKI TOWS & LIFTSNot Approved
Driven thru fluid or	STEERING GEAR1.0
electric slip clutch.....1.0	STOKER1.0
Gas Recirculating.....1.5	TIRE SHREDDER1.50
Induced Draft with damper	TUMBLING BARREL1.75
control or blade cleaner.....1.25	WINCH, MANEUVERING
Induced Draft without controls.....2.0	Dredge, Marine.....1.5
FEEDERS	Windlass.....1.5
Apron, Belt, Disc, Screw.....1.0	WOODWORKING
Reciprocating.....2.5	MACHINERY1.0
GENERATORS	WORK LIFT PLATFORMSNot Approved
Even Load.....1.0	
Hoist or Railway Service.....1.5	

♦ For engine drives, refer to Table 5. Electric motors, generators, engines, compressors and other machines fitted with sleeves or straight roller bearings usually require limited end float couplings. If in doubt, provide axial clearances and centering forces to the Factory for a recommendation.

* For balanced opposed design, refer to the Factory.

▲ If people are occasionally transported, refer to the Factory for the selection of the proper size coupling.

♣ For high peak load applications (such as Metal Rolling Mills) refer to the Factory.

TABLE 5 — Engine Drive Service Factors ♥

Service Factors for engine drives are those required for applications where good flywheel regulation prevents torque fluctuations greater than $\pm 20\%$. For drives where torque fluctuations are greater or where the operation is near a serious critical or torsional vibration, a mass elastic study is necessary.

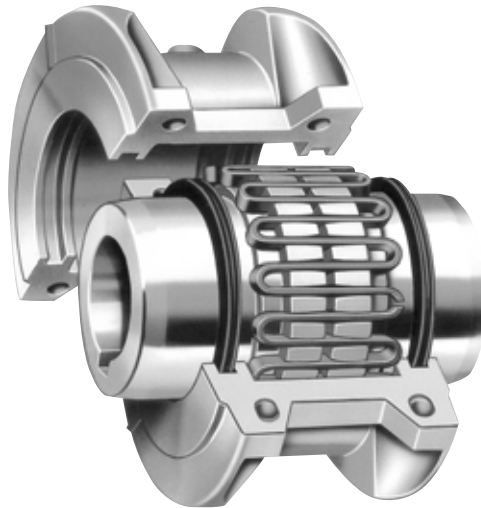
No. of Cylinders	4 or 5 ♥				6 or more ♥			
Table 2 S.F.	1.0	1.25	1.5	1.75	2.0	1.0	1.25	1.5
Engine S.F.	2.0	2.25	2.5	2.75	3.0	1.5	1.75	2.0

♥ To use Table 5, first determine application service factor from Table 4. Use that factor to determine ENGINE Service Factor from Table 5. When service factor from Table 4 is greater than 2.0, or where 1, 2, or 3 cylinder engines are involved, refer complete application details to Feinnord Engineering.

Alphabetical listing of industries

Service Factor	Service Factor
AGGREGATE PROCESSING, CEMENT, MINING KILNS; TUBE, ROD AND BALL MILLS	Slitters, Steel Mill only.....1.75
Direct or on L.S. shaft of	Soaking Pit Cover Drives —
Reducer, with final drive	Lift.....1.0
Machined Spur Gears.....2.0	Travel.....2.0
Single Helical or	Straighteners.....2.0
Herringbone Gears.....1.75	Unscramblers (Billet Bundle
Conveyors, Feeders, Screens,	Busters).....2.0
Elevators.....See General Listing	Wire Drawing Machinery.....1.75
Crushers, Ore or Stone.....2.5	OIL INDUSTRY
Dryer, Rotary.....1.75	Chiller.....1.25
Grizzly.....2.0	Oil well Pumping (not over
Hammermill or Hog.....1.75	150% peak torque).....2.0
Tumbling Mill or Barrel.....1.75	Paraffin Filter Press.....1.5
BREWING AND DISTILLING	Rotary Kiln.....2.0
Bottle and Can	PAPER MILLS
Filling Machines.....1.0	Barker Auxiliary, Hydraulic.....2.0
Brew Kettle.....1.0	Barker, Mechanical.....2.0
Cookers, Continuous Duty.....1.25	Barking Drum
Lauter Tub.....1.5	L.S. shaft of reducer with
Mash Tub.....1.25	final drive - Helical
Scale Hopper, Frequent Peaks.....1.75	or Herringbone Gear.....2.0
CLAY WORKING INDUSTRY	Machined Spur Gear.....2.5
Brick Press, Briquette Machine,	Cast Tooth Spur Gear.....3.0
Clay Working Machine,	Beater & Pulper.....1.75
Pug Mill.....1.75	Bleachers, Coaters.....1.0
DREDGES	Calender & Super Calender.....1.75
Cable Reel.....1.75	Chipper.....2.5
Conveyors.....1.25	Converting Machine.....1.25
Cutter head, Jig Drive.....2.0	Couch.....1.75
Maneuvering Winch.....1.5	Cutter, Felt Whipper.....2.0
Pumps (uniform load).....1.5	Cylinder.....1.75
Screen Drive, Stacker.....1.75	Dryer.....1.75
Utility Winch.....1.5	Felt Stretcher.....1.25
FOOD INDUSTRY	Fourdriner.....1.75
Beet Slicer.....1.75	Jordan.....2.0
Bottling, Can Filling Machine.....1.0	Log Haul.....2.0
Cereal Cooker.....1.25	Line Shaft.....1.5
Dough Mixer, Meat Grinder.....1.75	Press.....1.75
LUMBER	Pulp Grinder.....1.75
Band Resaw.....1.5	Reel, Rewinder, Winder.....1.5
Circular Resaw, Cut-off.....1.75	Stock Chest, Washer,
Edger, Head Rig, Hog.....2.0	Thickener.....1.5
Gang Saw	Stock Pumps, Centrifugal
(Reciprocating).....Refer to Factory	Constant Speed.....1.0
Log Haul.....2.0	Frequent Speed Changes
Planer.....1.75	Under Load.....1.25
Rolls, Non-Reversing.....1.25	Suction Roll.....1.75
Rolls, Reversing.....2.0	Vacuum Pumps
Sawdust Conveyor.....1.25	1.25
Slab Conveyor.....1.75	RUBBER INDUSTRY
Sorting Table.....1.5	Calender.....2.0
Trimmer.....1.75	Cracker, Plasticator.....2.5
METAL ROLLING MILLS	Extruder.....1.75
Coilers (Up or Down) Cold	Intensive or Banbury Mixer.....2.5
Mills only.....1.5	Mixing Mill, Refiner or Sheeter
Coilers (Up or Down) Hot	One or two in line.....2.5
Mills only.....2.0	Three or four in line.....2.0
Coke Plants	Five or more in line.....1.75
Pusher Ram Drive.....2.5	Tire Building Machine.....2.5
Door Opener.....2.0	Tire & Tube Press Opener
Pusher or Larry Car	(Peak Torque).....1.0
Traction Drive.....3.0	Tuber, Strainer, Pelletizer.....1.75
Continuous Caster.....1.75	Warming Mill
Cold Mills —	One or two Mills in line.....2.0
Strip Mills.....Refer to Factory	Three or more Mills in line.....1.75
Temper Mills.....Refer to Factory	Washer.....2.5
Cooling Beds.....1.5	SEWAGE DISPOSAL EQUIPMENT
Drawbench.....2.0	Bar Screen, Chemical Feeders,
Feed Rolls - Blooming Mills.....3.0	Collectors, Dewatering
Furnace Pushers.....2.0	Screen, Grit Collector.....1.0
Hot and Cold Saws.....2.0	SUGAR INDUSTRY
Hot Mills —	Cane Carrier & Leveler.....1.75
Strip or Sheet Mills.....Refer to Factory	Cane Knife & Crusher.....2.0
Reversing Blooming.....Refer to Factory	Mill Stands, Turbine Driver
Slabbing Mills.....Refer to Factory	With all helical or
Edger Drives.....Refer to Factory	Herringbone gears.....1.5
Ingot Cars.....2.0	Electric Drive or Steam Engine
Manipulators.....3.0	Drive with Helical,
Merchant Mills.....Refer to Factory	Herringbone, or Spur Gears
Mill Tables	with any Prime Mover.....1.75
Roughing Breakdown	TEXTILE INDUSTRY
Mills.....3.0	Batcher.....1.25
Hot Bed or Transfer,	Calender, Card Machine.....1.5
non-reversing.....1.5	Cloth Finishing Machine.....1.5
Runout, reversing.....3.0	Dry Can, Loom.....1.5
Runout, non-reversing,	Dyeing Machinery.....1.25
non-plugging.....2.0	Knitting Machine.....Refer to Factory
Reel Drives.....1.75	Mangle, Napper, Soaper.....1.25
Rod Mills.....Refer to Factory	Spinner, Tenter Frame, Winder.....1.5
Screwdown.....2.0	
Seamless Tube Mills	
Piercer.....3.0	
Thrust Block.....2.0	
Tube Conveyor Rolls.....2.0	
Reeler.....2.0	
Kick Out.....2.0	
Shear, Croppers.....Refer to Factory	
Sideguards.....3.0	
Skelp Mills.....Refer to Factory	

TAPER GRID COUPLING

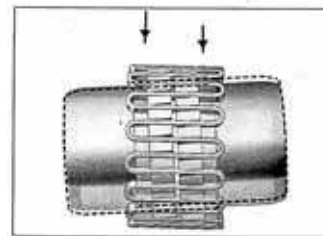


1. Characteristic & Merits

You can get more favorable convenience and cost down by using Taper Grid Steel Flexible Couplings.

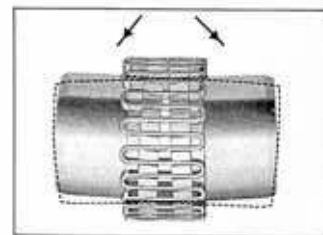
PARALLEL MISALIGNMENT

The movement of the grid in the lubricated grooves accommodates parallel misalignment and permits full functioning of the grid-groove action in damping out shock and vibration.



ANGULAR MISALIGNMENT

Under angular misalignment, the grid-groove design permits a rocking and sliding action of the lubricated grid and hubs without any loss of power through the resilient grid.

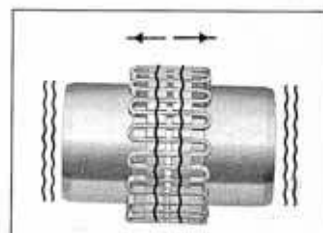


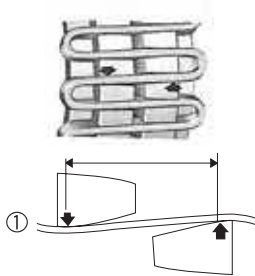
END FLOAT

Unrestrained end float of driving and driven members is permitted because the grid slides freely in the lubricated grooves.

TORSIONAL FLEXIBILITY

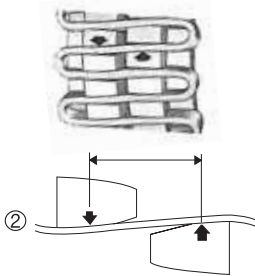
Torsional flexibility is the advantage of Taper Grid Couplings, providing flexible accommodation to changing load conditions.





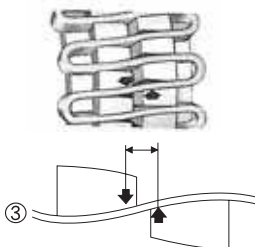
1 Grid in Light Load

The grid bears near the outer edges of the hub teeth. The long span between the points of contact remains flexible under load variations.



2 Grid in Normal Load

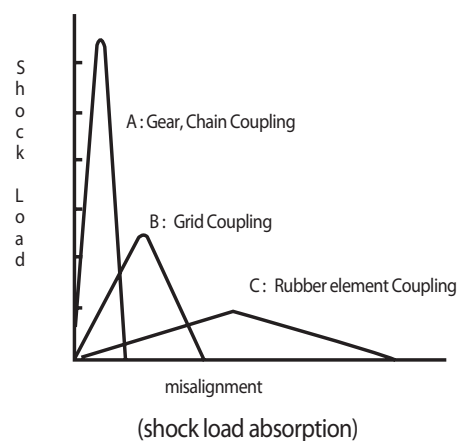
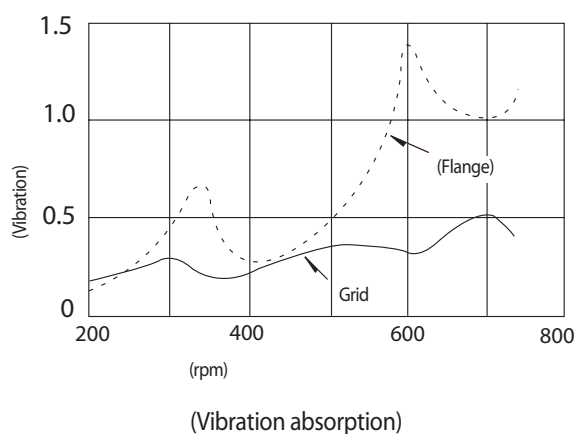
As the load increases, the distance between the contact points on the hub teeth is shortened, but a free span still remains flexible for shock loads.



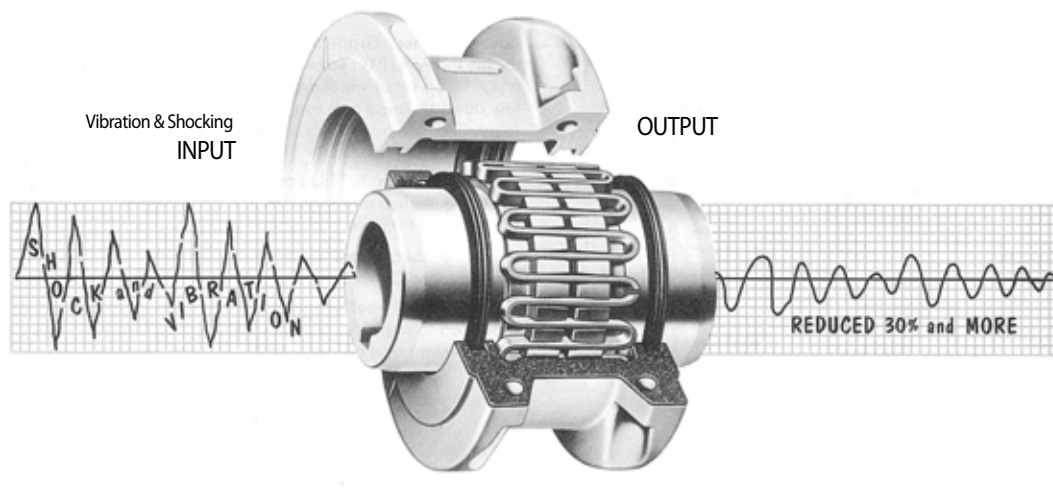
3 Grid in Shock Loads

The coupling is flexible within its rated power capacity. Under extreme overloads, the grid bears and transmits full load on the hub teeth directly.

Taper Grid coupling creates the excellent performance as shown below.



The absorption of mechanical vibration of Taper Grid coupling



MERITS

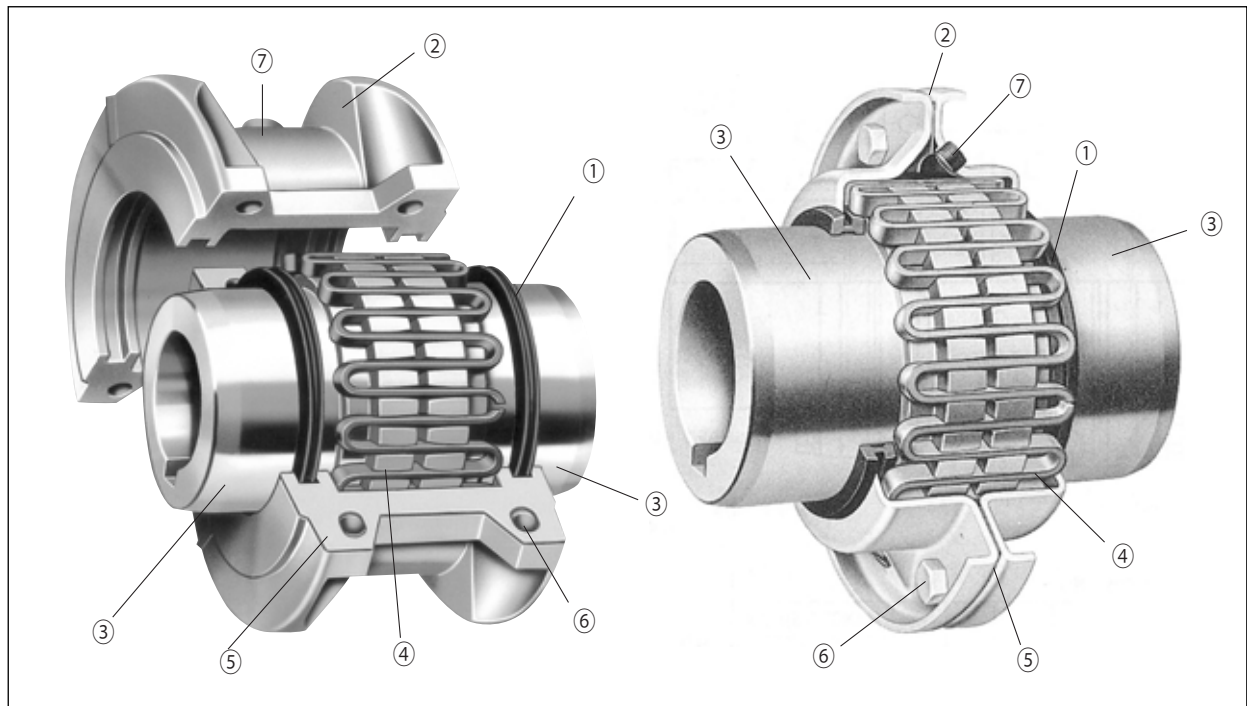
1. When overload occurs, grid breaks and prevents breaking shaft or machinery parts connected.
2. When the parallel misalignment is too severe, the relating machine is protected by the virtue of shearing Grid on Tooth.
3. The life of parts(Mechanical Seal and Bearing, etc) can be extended as twice or more.
4. Quick installation and easy maintenance reduce labor cost and down-time cost.
5. Our Grid coupling is interchangeable with international major brands.
6. It always transmits the power fully(100%) in low noise.
7. You can use it at cheaper maintenance cost by changing damaged parts only.

2. Application

Pin-Bush Flange coupling and Chain Couplings have usually been used, but now using the TAPER GRID COUPLINGS, you will get many benefits .

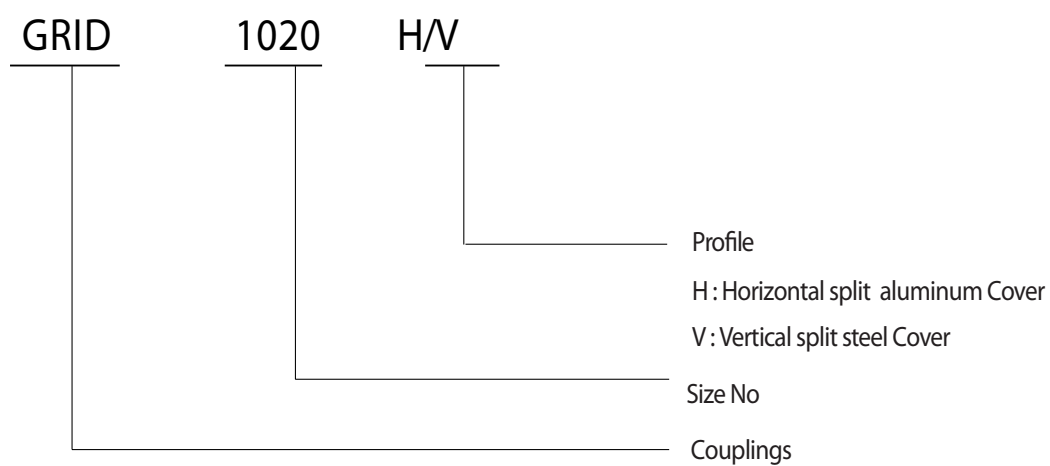
1. When required to reduce vibration and shock load.
2. When required adequate power transmission under line misalignment.
3. When required adequate power transmission under angular misalignment.
4. When required adequate power transmission under end floating.
5. When required to prevent breaking of the machinery parts under over load.
6. When reverse revolution is required.
7. When required smooth starting.

3. Structure



Part	1. Oil Seal	4. Grid
	2. H-Cover	5. Gasket
	V-Cover	6. Bolt
	3. Hub	7. Lub Plug

4. Designation



KSAS : Full spacer type(Horizontal split cover)
 KSFS : Half spacer type(Horizontal split cover)
 KSBW : Brake wheel type(Horizontal split cover)

5. Selection method of size

1. Selection method of size

- ① By using the following formula, obtain Design Torque required.

$$T = 97,400 \frac{\text{kw}}{\text{N}} \times \text{S.F} \quad T = 71,620 \frac{\text{HP}}{\text{N}} \times \text{S.F}$$

T = Design torque(kg·cm)
 kw = Power(kw)
 HP = Power(HP)
 N = Working revolution(rpm)
 S F = Recommended service factor.

- ② Select the size with the same or with the greater value at the Basic Torque column, Refer to the maximum shaft diameters of the size selected, and then compare the shaft diameters of the application with the max. bore dia of the size selected. If the coupling bore is not suitable, select the larger size coupling.
- ③ Special requirements
- A. on calculating the torque required, use the lowest operating speed(N) of the application
- B. If there are reverse motions repeated or frequent irregular load changes, take service factor twice.

2. Example

When you select a COUPLING to connect 30HP, 1,750rpm motor and rotary type pump. Motor shaft dia is 48mm and pump's 52mm.

- ① service factor of pump is 1.8.

$$\text{Torque (kg·cm)} = \frac{30 \times 71.620 \times 1.8}{1.750} = 2.210$$

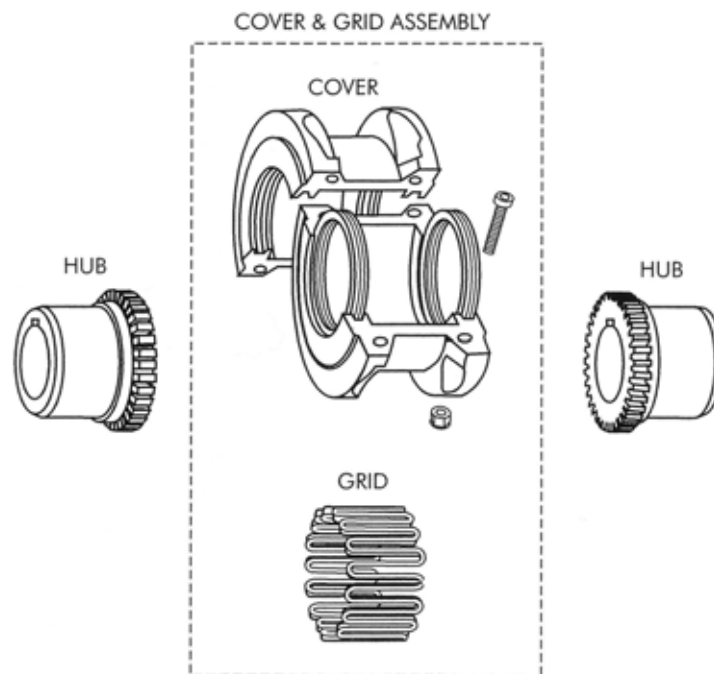
- ② Normal transmitting power is 30HP.

The coupling size 1040 accepts the calculated torque 2210kg·cm. And then compare the application shaft diameter sizes(52mm) to the maximum bore of the selected coupling size 1040(43 φ mm).

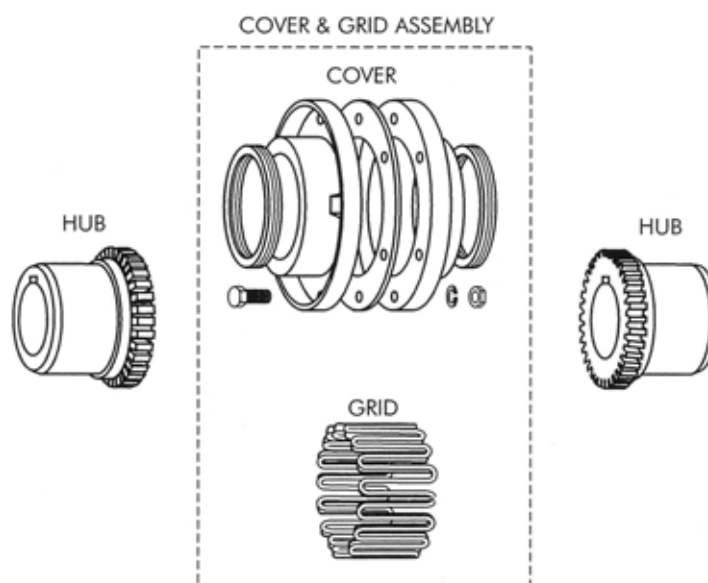
You will select the coupling size 1060 accepting upto 55mm shaft diameter. The size also accept the application motor speed 1750 rpm. Either H or V cover is available. Finally, the coupling size 1060 is selected.

6. Installation

Type H

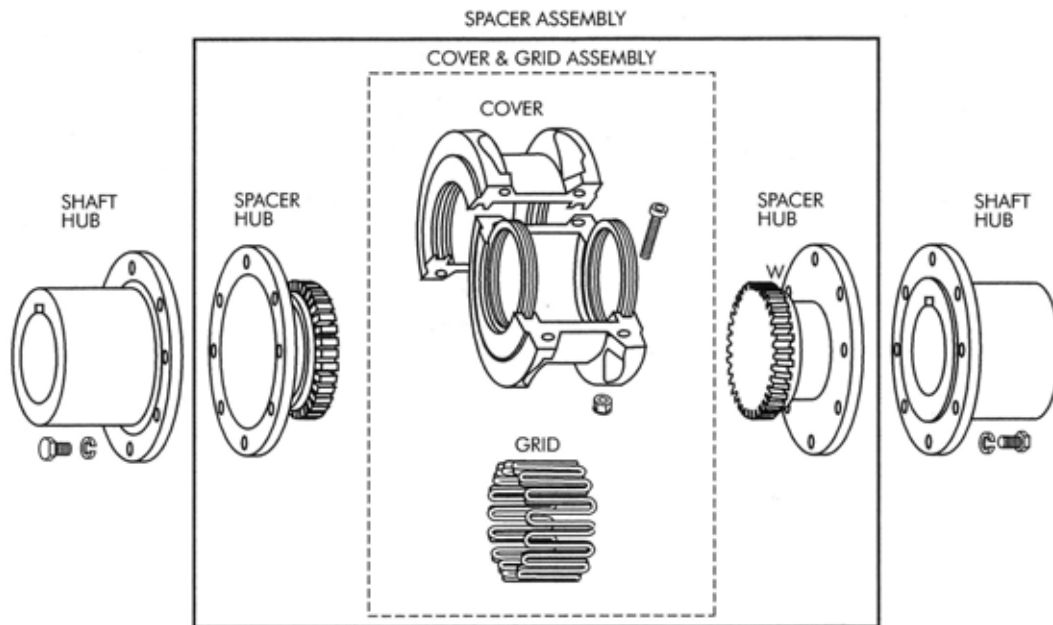


Type V



7. Installation

KSAS



KSFS

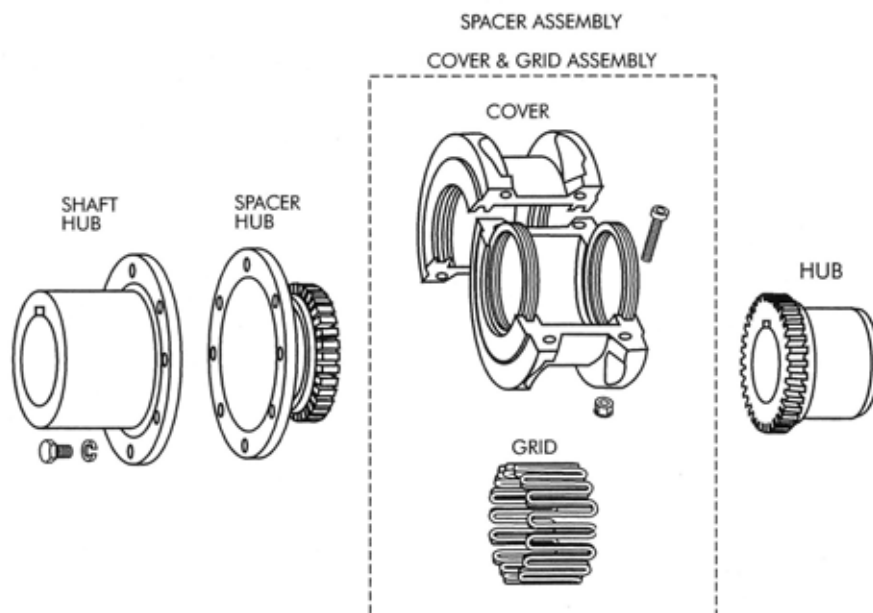
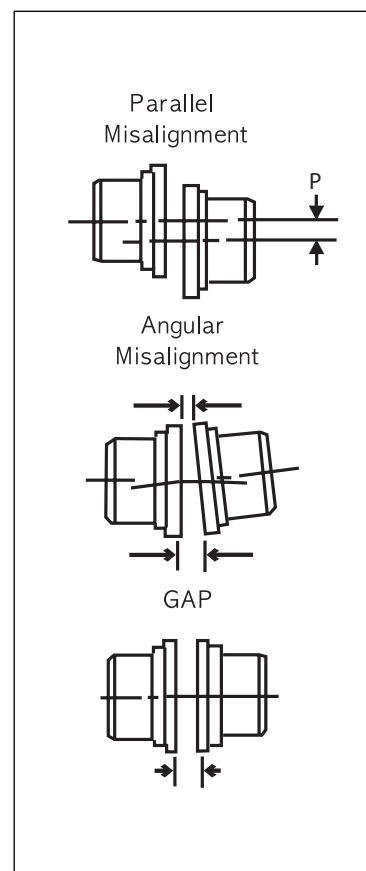


fig. 3 misalignment capacity

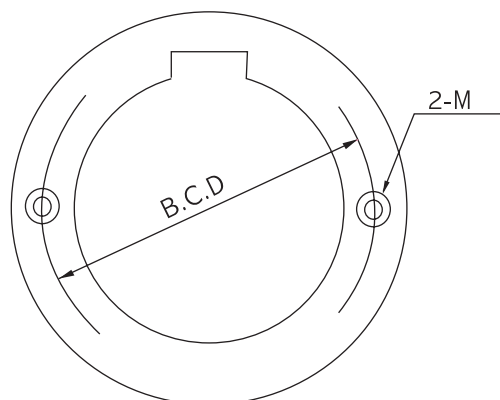
(Unit :mm)

Size	Recommended installation		Operating		Normal gap ± 10%
	Parallel offset p	Angular(1/16 °) X - Y	Parallel offset p	Angular(1/4 °) X - Y	
1020	0.15	0.08	0.3	0.25	3
1030	0.15	0.08	0.3	0.30	3
1040	0.15	0.08	0.3	0.33	3
1050	0.20	0.10	0.4	0.41	3
1060	0.20	0.13	0.4	0.46	3
1070	0.20	0.13	0.4	0.51	3
1080	0.20	0.15	0.4	0.61	3
1090	0.20	0.18	0.4	0.71	3
1100	0.25	0.20	0.5	0.84	5
1110	0.25	0.23	0.5	0.91	5
1120	0.28	0.25	0.56	1.02	6
1130	0.28	0.30	0.56	1.19	6
1140	0.28	0.33	0.56	1.35	6
1150	0.30	0.41	0.6	1.57	6
1160	0.30	0.46	0.6	1.78	6
1170	0.30	0.51	0.6	2.01	6
1180	0.38	0.56	0.76	2.26	6
1190	0.38	0.61	0.76	2.46	6
1200	0.38	0.69	0.76	2.72	6



The life of coupling is reduced by excess of the limit.

8. Specification of Puller Holes)



CPLG Size	B.C.D. (mm)	Bolt Size	CPLG Size	B.C.D. (mm)	Bolt Size
1070	74	M8	1150	227.5	M20
1080	89.5	M8	1160	260	M20
1090	106	M10	1170	306	M24
1100	121.5	M10	1180	341	M30
1110	136.5	M10	1190	373	M30
1120	150.5	M12	1200	414	M30
1130	185	M16	1210	540	M30
1140	205	M16	1220	570	M30

9. Lubrication and Handling

Choose high quality lubricant for Taper Grid Couplings for good performance and long life.

1. Grease Lubrication

Grease on the grid & hub teeth before assembling covers.

Fill up grease through the lub plug of the assembled coupling.

2. Supplement

Every three month Every 240~250 hours operating, you should add grease.

3. Replacement

Every 3 months, or every 4,000 hours operating you should replace all the deteriorated grease.

4. Selection

Choose grease according to the ambient temperature range in table 5.

☒ **Common Industrial Lubricants(NYGL Grade #2)**

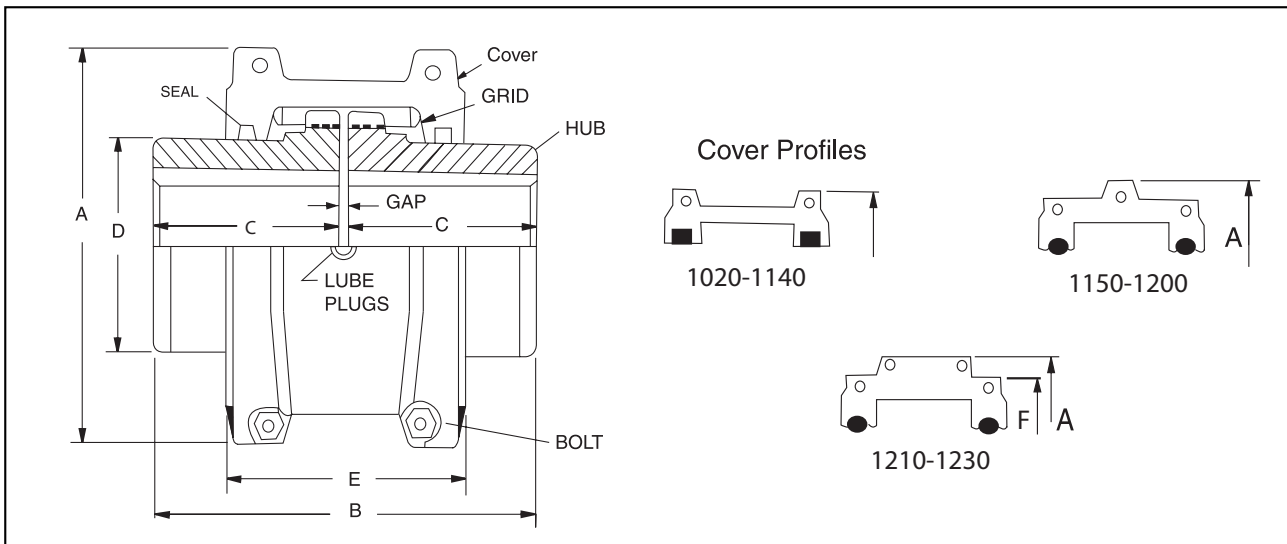
Table5

Manufacture	Ambient Temperature Range:	
	0° F to 150° F (-18° C to 66° C)	-30° F to 100° F (-34° C to 38° C)
Amoco Oil Co. Atlantic Richfield co. Chevron U.S.A Inc. Cities Service Co. Conoco Inc. Exxon Company, USA Gulf Oil Corp. E.F.Houghton & Co. Imperial Oil Ltd. Keystone Div.(Pennwalt) Mobil Oil Corp. Phillips Petroleum Co. Shell Oil Co. Standard Oil Co.(OH) Sun Oil Company Texaco Lubricants Union Oil Co.(CA) Valvoline Oil Co.	Amolith Grease #2 Litholene HEP 2 Chevron Dura-Lith EP-2 Citgo HEP-2 EP Conolith #2 Ronex MP Gulfcrown Grease #2 Cosmolube #2 Esso MP Grease H #81 Light Mobilux EP111 IB & RB grease Alvania Grease #2 Factran #2 Prestige 42 Starplex HD 2 Union Undoba #2 Val-Lith EP #2	Amolith Grease #2 Litholene HEP 2 Chevron Dura-Lith EP-2 Citgo HEP-2 EP Conolith #2 Ronex MP Gulfcrown Grease #2 Cosmolube #1 Lotemp EP #84 Light Mobilux #1 Philube IB & RB grease Alvania Grease #2 Factran #2 Prestige 42 Multifac EP2 Union Undoba #2 Val-Lith EP #2

☒ Note: For feed processing in dusty, check with lube manufacturer for approved lubricants.

10. Dimensions

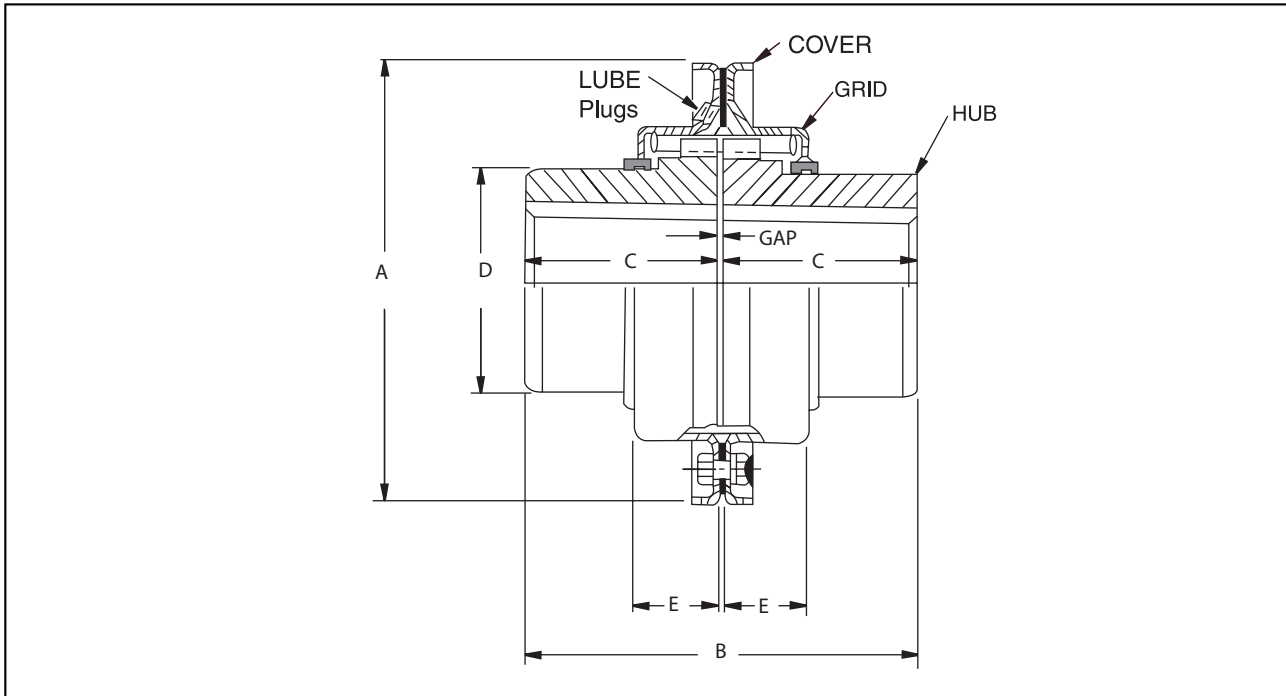
Type H (Horizontal Split Aluminium Cover)



Size	HP Per 100 rpm	Max. Speed (rpm)	Basic Torque (kg-cm)	Bore Dia (mm)		Dimension (mm)					Gap (mm)			Cplg Wt (kg)	Lube Wt (kg)	Size
				Max.	Min.	A	B	C	D	E	Min.	Normal	Max.			
1020H	0.68	4,500	486	30	12	101.6	98.0	47.5	39.7	66.5	1.5	3	4.5	1.9	0.03	1020
1030H	1.93	4,500	1,383	35	12	110.0	98.0	47.5	49.2	68.3	1.5	3	4.5	2.6	0.03	1030
1040H	3.22	4,500	2,304	43	12	117.5	104.6	50.8	57.1	70.0	1.5	3	4.5	3.4	0.05	1040
1050H	5.63	4,500	4,033	50	12	138.0	123.6	60.3	66.7	79.5	1.5	3	4.5	5.4	0.05	1050
1060H	8.85	4,350	6,337	55	19	150.5	130.0	63.5	76.2	92.0	1.5	3	4.5	7.3	0.09	1060
1070H	13	4,125	9,217	65	19	161.9	155.4	76.2	87.3	95.0	1.5	3	4.5	10	0.11	1070
1080H	27	3,600	19,010	78	27.0	194.0	180.8	88.9	104.8	116.0	1.5	3	4.5	18	0.17	1080
1090H	48	3,600	34,564	95	27.0	213.0	199.8	98.4	123.8	122.0	1.5	3	6	25	0.25	1090
1100H	81	2,400	58,183	107	41	250.0	245.7	120.6	142.0	155.5	1.5	3	6	42	0.43	1100
1110H	121	2,250	86,411	117	41	270.0	258.5	127.0	160.3	161.5	1.5	4.5	9.5	54	0.51	1110
1120H	177	2,025	126,736	136	60	308.0	304.4	149.2	179.4	191.5	1.5	4.5	9.5	81	0.73	1120
1130H	257	1,800	184,343	165	67	346.0	329.8	161.9	217.5	195.0	1.5	6	12.5	121	0.91	1130
1140H	370	1,650	264,993	184	67	384.0	371.6	182.8	254.0	201.0	1.5	6	12.5	178	1.13	1140
1150H	515	1,500	368,686	203	108	453.1	371.8	182.9	269.2	271.3	1.5	6	12.5	234	1.95	1150
1160H	724	1,350	518,465	228	120.7	501.4	402.2	198.1	304.8	278.9	1.5	6	12.5	317	2.81	1160
1170H	965	1,225	691,286	279	133.4	566.4	437.8	215.9	355.6	304.3	1.5	6	12.5	448	3.49	1170
1180H	1,338	1,100	958,584	311	152.4	629.9	483.6	238.8	393.7	321.1	1.5	6	12.5	619	3.76	1180
1190H	1,770	1,050	1,267,358	339	152.4	675.6	524.2	259.1	436.9	325.1	1.5	6	12.5	776	4.40	1190
1200H	2,413	900	1,728,216	361	177.8	756.9	564.8	279.4	497.8	355.6	1.5	6	12.5	1,057	5.62	1200
1210H	3,230	820	2,304,288	366	177.8	844.5	622.3	304.8	533.4	431.8	3.0	13	24.0	1,424	10.50	1210
1220H	4,350	730	3,110,788	411	203.2	820.7	622.9	325.0	571.5	490.2	3.0	13	24.0	1,784	16.05	1220
1230H	5,640	680	4,438,775	450	250.0	1,003.3	703.8	345.4	609.6	546.1	3.0	13	24.0	2,267	24.00	1230

Coupling weight, with unbored hub assembly.

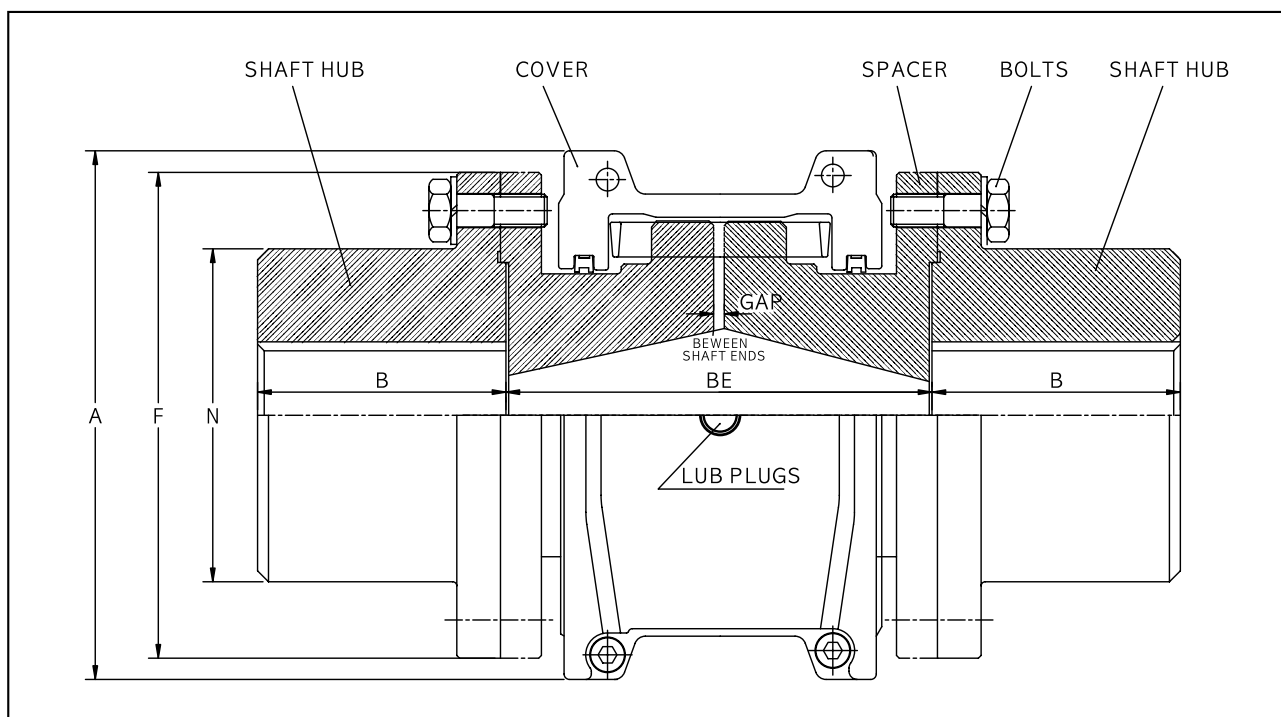
Type V (Vertical Split Steel Cover)



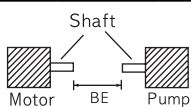
Size	HP Per 100 rpm	Max. Speed (rpm)	Basic Torque (kg-cm)	Bore Dia (mm)		Dimensions(mm)					Gap(mm)			Cplg Wt(kg)	Lub Wt (kg)	Size
				Max.	Min.	A	B	C	D	E	Min.	Normal	Max.			
1020	0.68	6,000	486	30	12.7	111.1	98.0	47.5	39.7	24.2	1.5	3	4.5	2.0	0.03	1020
1030	1.93	6,000	1,383	36	12.7	120.7	98.0	47.5	49.2	25.0	1.5	3	4.5	2.6	0.03	1030
1040	3.22	6,000	2,304	44	12.7	128.5	104.6	50.8	57.1	25.7	1.5	3	4.5	3.4	0.05	1040
1050	5.63	6,000	4,033	50	12.7	147.6	123.6	60.3	66.7	31.2	1.5	3	4.5	5.4	0.05	1050
1060	8.85	6,000	6,337	57	19.1	162.0	130.0	63.5	76.2	32.2	1.5	3	4.5	7.3	0.09	1060
1070	13	5,500	9,217	65	19.1	173.0	155.4	76.2	87.3	33.7	1.5	3	4.5	10.4	0.11	1070
1080	27	4,750	19,010	79	27.0	200.0	180.8	88.9	104.8	44.2	1.5	3	4.5	17.7	0.17	1080
1090	48	4,000	34,564	95	27.0	231.8	199.8	98.4	123.8	47.7	1.5	3	6	25.4	0.25	1090
1100	81	3,250	58,183	107	41.3	266.7	245.7	120.6	142.0	60.0	1.5	3	6	42.2	0.43	1100
1110	121	3,000	86,411	117	41.3	285.8	258.5	127.0	160.3	64.2	1.5	4.5	12.5	54.4	0.51	1110
1120	177	2,700	126,736	136	60.3	319.0	304.4	149.2	179.4	73.4	1.5	4.5	12.5	81.6	0.73	1120
1130	257	2,400	184,343	165	66.7	377.8	329.8	161.9	217.5	75.1	1.5	6	12.5	122.5	0.91	1130
1140	370	2,200	264,993	184	66.7	416.0	371.6	182.8	254.0	78.2	1.5	6	12.5	180.1	1.13	1140
1150	515	2,000	368,686	203	108.0	476.3	371.8	182.9	269.2	106.9	1.5	6	12.5	230.0	1.95	1150
1160	724	1,750	518,465	228	120.7	533.4	402.2	198.1	304.8	114.3	1.5	6	12.5	321.1	2.81	1160
1170	965	1,600	691,286	279	133.4	584.2	437.8	215.9	355.6	119.4	1.5	6	12.5	448.2	3.49	1170
1180	1,338	1,400	958,584	311	152.4	630.0	483.6	238.8	393.7	130.0	1.5	6	12.5	591.0	3.76	1180
1190	1,770	1,300	1,267,358	339	152.4	685.0	524.2	259.1	436.9	135.0	1.5	6	12.5	761.0	4.40	1190
1200	2,413	1,100	1,728,216	361	177.8	737.0	564.8	279.4	497.8	145.0	1.5	6	12.5	1,021.0	5.62	1200

Coupling weight without Bore machining.

Type KSAS (Full Spacer)

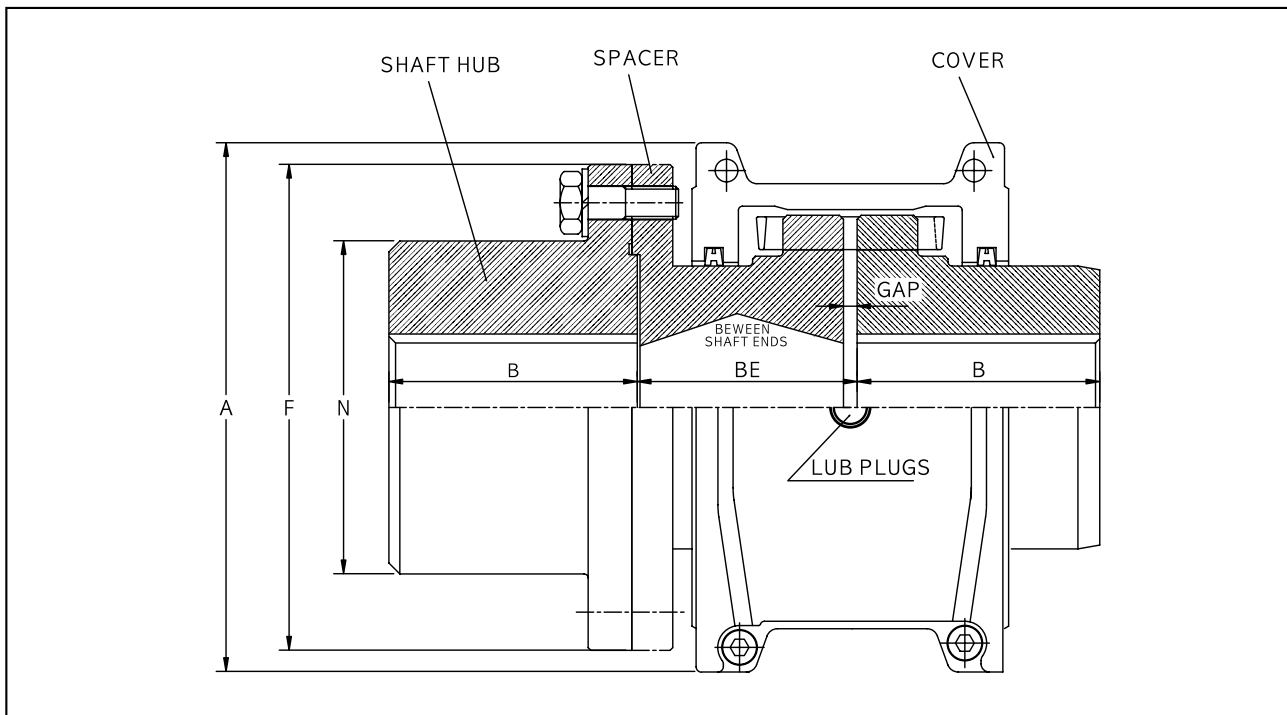


Size	HP Per 100 rpm	Max. Speed (rpm)	Basic Torque (kg-cm)	Bore Dia (mm)		Dimensions(mm)							Flange Bolt No.	Lub Wt (kg)	Size
						A	B	BE(KSAS)		N	F.	Gap			
				Max.	Min.			Min.	Max.						
1020	0.68	3,600	486	36	12.7	101.6	35	89	203	52	86	5	4	0.03	1020
1030	1.93	3,600	1,383	44	12.7	111.0	41	89	216	59	94	5	8	0.03	1030
1040	3.22	3,600	2,304	57	12.7	117.5	54	89	216	78	113	5	8	0.05	1040
1050	5.63	3,600	4,033	64	12.7	138.0	60	112	216	87	126	5	8	0.05	1050
1060	8.85	3,600	6,337	79	19.1	150.5	73	127	330	103	145	5	8	0.09	1060
1070	13	3,600	9,217	83	19.1	161.9	79	127	330	109	153	5	12	0.11	1070
1080	27	3,600	19,010	95	27.0	194.0	89	184	406	122	178	5	12	0.17	1080
1090	48	3,600	34,564	108	27.0	213.0	102	184	406	142	210	5	12	0.25	1090
1100	81	2,400	58,183	127	38.1	250.0	90	203	406	171	251	6.5	12	0.43	1100
1110	121	2,250	86,411	149	50.8	270.0	104	210	406	196	277	6.5	12	0.51	1110
1120	177	2,025	126,736	165	63.5	308.0	119	246	406	225	319	9.5	12	0.73	1120
1130	257	1,800	184,343	178	76.2	346.0	135	257	406	238	346	9.5	12	0.91	1130
1140	370	1,650	264,993	203	88.9	384.0	152	267	406	266	386	9.5	12	1.13	1140
1150	515	1,500	368,686	254	101.6	453.1	173	345	371	334	425	9.5	14	1.95	1150
1160	724	1,350	518,465	279	114.3	501.4	186	356	406	366	457	9.5	14	2.81	1160
1170	965	1,225	691,286	330	127.0	566.4	220	384	445	425	527	9.5	16	3.49	1170
1180	1,338	1,100	958,584	330	101.6	629.9	249	400	490	451	591	9.5	16	3.76	1180
1190	1,770	1,050	1,267,358	362	114.3	675.6	276	411	530	508	660	9.5	18	4.40	1190
1200	2,413	900	1,728,216	381	127.0	756.9	305	445	575	530	711	9.5	18	5.62	1200

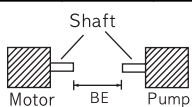


BE means the distance between shaft ends.

KSFS (Half Spacer)



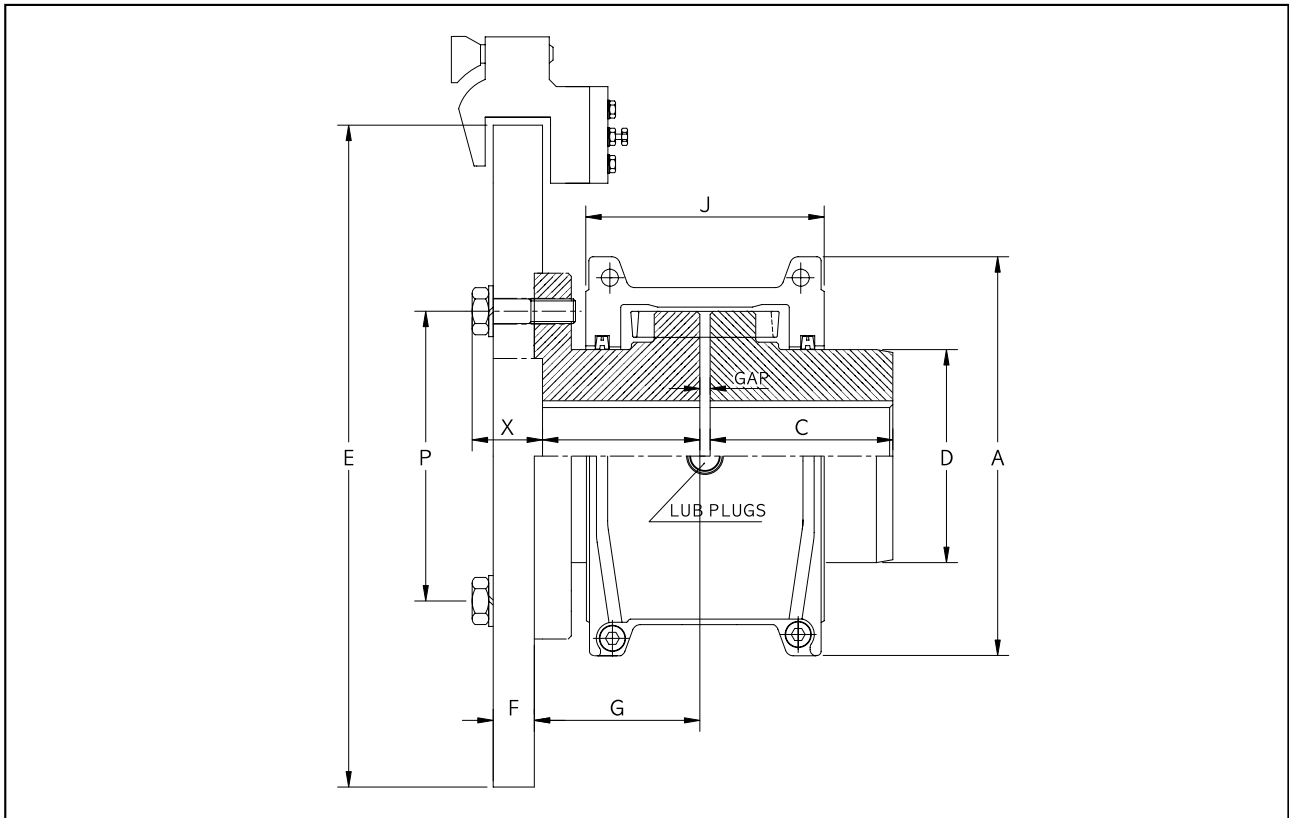
Size	HP Per 100 rpm	Max. Speed (rpm)	Basic Torque (kg-cm)	Bore Dia (mm)		Dimensions(mm)							Flange Bolt No.	Lub Wt (kg)	Size
						A	B	BE(KSFS)		N	F.	Gap			
				Max.	Min.			Min.	Max.						
1020	0.68	3,600	486	36	12.7	101.6	35	45	102	52	86	5	4	0.03	1020
1030	1.93	3,600	1,383	44	12.7	111.0	41	45	109	59	94	5	8	0.03	1030
1040	3.22	3,600	2,304	57	12.7	117.5	54	45	109	78	113	5	8	0.05	1040
1050	5.63	3,600	4,033	64	12.7	138.0	60	57	109	87	126	5	8	0.05	1050
1060	8.85	3,600	6,337	79	19.1	150.5	73	64	166	103	145	5	8	0.09	1060
1070	13	3,600	9,217	83	19.1	161.9	79	64	166	109	153	5	12	0.11	1070
1080	27	3,600	19,010	95	27.0	194.0	89	93	204	122	178	5	12	0.17	1080
1090	48	3,600	34,564	108	27.0	213.0	102	93	204	142	210	5	12	0.25	1090
1100	81	2,400	58,183	127	38.1	250.0	90	103	205	171	251	6.5	12	0.43	1100
1110	121	2,250	86,411	149	50.8	270.0	104	106	205	196	277	6.5	12	0.51	1110
1120	177	2,025	126,736	165	63.5	308.0	119	125	205	225	319	9.5	12	0.73	1120
1130	257	1,800	184,343	178	76.2	346.0	135	130	205	238	346	9.5	12	0.91	1130
1140	370	1,650	264,993	203	88.9	384.0	152	135	205	266	386	9.5	12	1.13	1140
1150	515	1,500	368,686	254	101.6	453.1	173	175	187	334	425	9.5	14	1.95	1150
1160	724	1,350	518,465	279	114.3	501.4	186	180	205	366	457	9.5	14	2.81	1160
1170	965	1,225	691,286	330	127.0	566.4	220	194	224	425	527	9.5	16	3.49	1170
1180	1,338	1,100	958,584	330	101.6	629.9	249	202	247	451	591	9.5	16	3.76	1180
1190	1,770	1,050	1,267,358	362	114.3	675.6	276	207	267	508	660	9.5	18	4.40	1190
1200	2,413	900	1,728,216	381	127.0	756.9	305	224	289	530	711	9.5	18	5.62	1200



BE means the distance between shaft ends.

Type KHBD, (Disk Brake)

Taper Grid Coupling



Size	KHBD		Dimension(mm)											Cplg WT kg	Lube WT kg	Brake Disk	
	Rated Torque kgf-m	Max speed rpm	Max bore	Min bore	A	C	D	G	J	P	W	X	GAP			E	F
1020H	4.9	4,500	29	13	101.6	48	40	60	67.5	71	61	12	3.2	26	0.03	203	64
1030H	13.8	4,500	35	13	110	48	49	60	71.8	79	61	12	3.2	33	0.04	254	64
1040H	23.0	4,500	41	13	114.5	51	57	60	71.7	98	61	12	3.2	43	0.05	254	64
1050H	40.3	4,500	48	13	138	61	67	60	81.5	108	61	13	3.2	64	0.05	254	64
1060H	63.4	4,350	54	19	150.5	64	76	89	97.5	125	88	15	3.2	9.6	0.09	305	64
1070H	92.2	4,125	64	19	162	76	87	89	98.9	133	88	15	3.2	123	0.12	305	64
1080H	190.1	3,600	76	27	193.7	89	105	89	118.4	152	88	18	3.2	198	0.17	305	64
1090H	345.6	3,600	89	27	212.2	99	124	89	126.9	179	88	27	3.2	284	0.25	406	127
1100H	581.8	2,440	102	41	250	121	142	119	156	216	119	29	4.8	47.7	0.43	406	127
1110H	864.1	2,250	114	41	270	127	160	146	162.6	241	146	41	4.8	64.9	0.51	457	127
1120H	1,267.4	2,025	127	60	308	149	179	150	191	276	149	33	6.4	92.1	0.73	509	127
1130H	1,843.4	1,800	152	67	345.3	162	217	153	195	295	152	35	6.4	132	0.91	559	127
1140H	2,649.9	1,650	184	67	386	184	254	160	201	330	159	38	6.4	185	1.13	610	127
1150H	3,686.9	1,500	203	108	453	183	269	180	271	368	183	32	6.4	253	1.95	762	127
1160H	5,184.7	1,350	229	108	501	198	305	198	279	400	198	32	6.4	336	2.81	914	127