

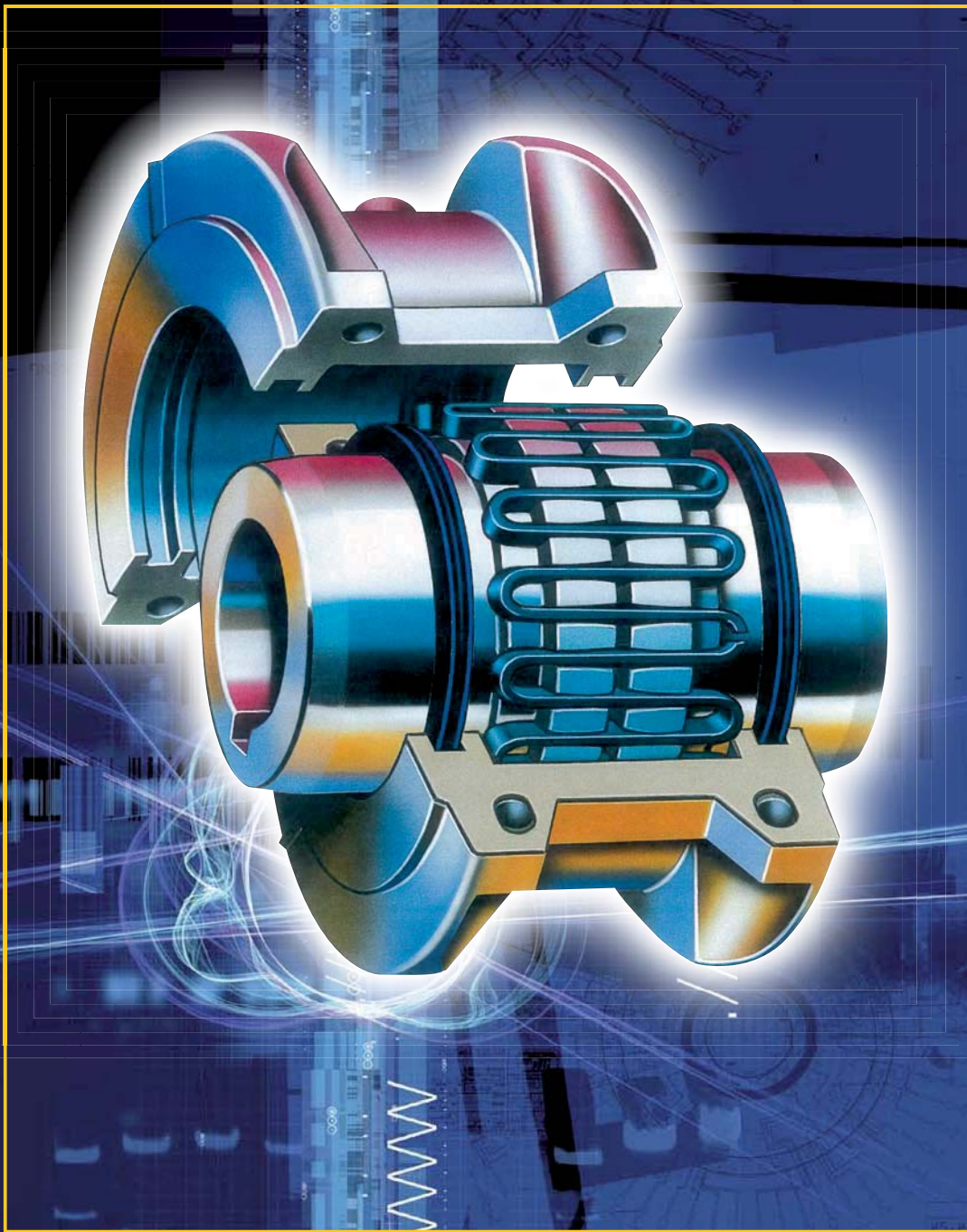


WESTCAR s.r.l.

STEELFLEX

Code 17503

Falk™ Steelflex® Grid Couplings





WESTCAR PRODUCTS

ROTOFLUID hydraulic couplings for rated power up to 4000 kW



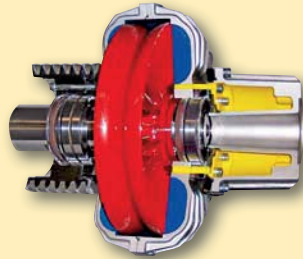
ROTOGEAR tooth gear couplings for torques up to 383.000 Nm

ROTOFLUID GGG hydraulic couplings (with cast-iron casing) for rated power from 100 to 6000 kW



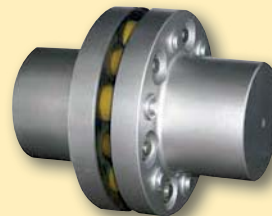
ROTOFLEXI® flexible couplings with quick replacement of the rubber element without axial hubs movement. For torques up to 4.000 Nm.

ROTOFLUID-SCF/DCF hydraulic couplings with simple/double delay chamber



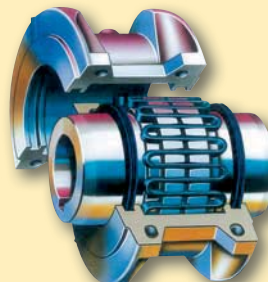
HBX – GCX – HPX disc couplings. With spacer HBSX – GCSX – HPSX - BE. Torques up to 1.043.300 Nm

ROTOFLUID-CA hydraulic couplings with annular chamber and starting torque lower than nominal motor torque



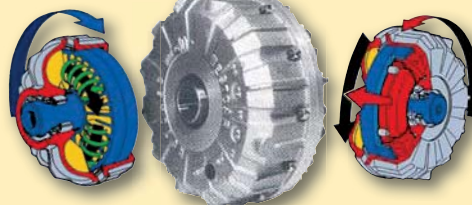
ROTOPIN flexible couplings with pins and buffers axially sliding. For torques up to 300.000 Nm

BD Drum Brakes
CD Disc Brakes
with brake servo



Falk™ Steelflex®
Grid Couplings

SOFTSTART
Static starter with digital control for rated power up to 750 kW.
Energy saving function.
Water hammering control.
Programming also via RS 485



ROTOMECH hydromechanical couplings with hydraulic start-up and centrifugal mechanical lock-up with zero slip at running. For rated power up to 1500 kW



ON REQUEST, ATEX
CERTIFIED PRODUCTS
CAN BE SUPPLIED.



Quick, Easy Installation...

Replace-In-Place Design

The grid is the wearing member of a Steelflex coupling and it is a fraction of the complete coupling cost. Tapered grids are accessible through the quickly removable cover.

The replace-in-place design of the replacement grids allows them to be dropped in without the need to remove or reposition hubs or realign shafts as required with gear couplings and many elastomer designs.

When coupling-connected equipment must be moved, the job takes longer and costs a lot more.

Equipment Protection Against Shaft Misalignment

The grid is free to rock, pivot and float within the hub teeth. Generous misalignment capacity is provided without producing detrimental bearing side loads created by other couplings.

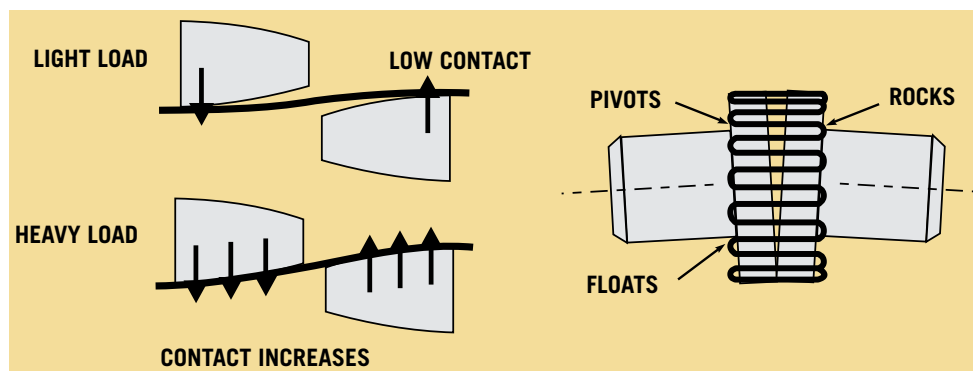
Equipment Protection Against Shock/Vibratory Loads

Torsional flexibility is the ability of Falk Steelflex couplings to torsionally deflect when subjected to normal shock or vibratory loads, providing flexible accommodation to changing load conditions.

Consequently, Steelflex tunes the drive system. It absorbs impact energy by spreading it over an increment of time. It damps vibration and reduces peak or shock loads by as much as 30%. It is a true shock absorber for rotary motion, relying on the predictable resilience of the steel grid for torsional flexibility.



**Steelflex HD Grid Couplings –
The preferred replacement for
gear couplings**



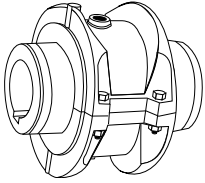
Versatile Designs

Two cover designs are available in the popular sizes. piloted, high speed, brakewheel or disc, and controll designs are also available.

Worldwide Availability

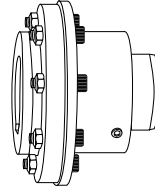
Steelflex couplings and component parts, are available in many sizes and types. Our distribution centers and worldwide distributors offer the largest stock of rough bore, finish straight bore, lock bushed hubs of any shaft coupling on the market. grid couplings are warranted for 5 Years when lubricated with LTG Long Term Grease.

A general purpose, lubricated design that combines the economy and high torque capacity of a gear coupling with the torsional flexibility of an elastomer coupling. Backed by a 5-year lubrication warranty, Falk Steelflex couplings require no periodic maintenance when lubricated with Falk LTG (Long Term Grease) at installation. Featuring 25 sizes, Steelflex couplings can accommodate torque loads of 932 000 (Nm) and shaft diameters of 508 millimeters.



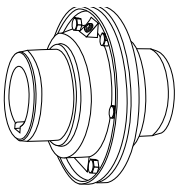
A double flexing, close-coupled design for use in four bearing systems. Features a horizontally split cover which allows for grid replacement without the movement of the connected equipment. (See Page 14.)

Type T10 Close Coupled



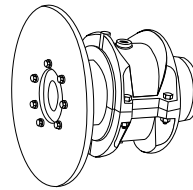
For use on line shaft applications. Can be used in place of single engagement gear couplings to provide torsional resiliency and lower overall operating cost. (See Pages 28 & 29.)

Type T50 Piloted



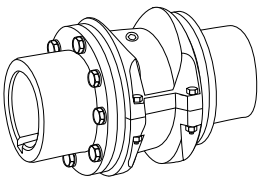
A double flexing design featuring a vertically split steel cover. Ideal for higher running speeds. (See Page 15.)

Type T20 Close Coupled



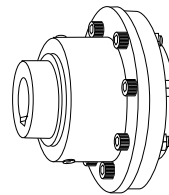
Proven to be far superior to drum-type brakes in cost, construction and performance. (See Pages 30 thru 32.)

Type T63 Disc Brake



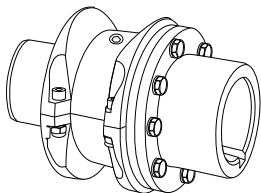
Complete center section drops out for easy service of connected equipment bearings and seals. Ideal for pump applications. (See Pages 16 & 17.)

Type T31 Full Spacer



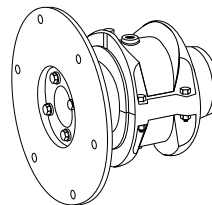
Designed for operating speeds beyond those of the T10 and T20 designs. Features a one-piece cover and balanced components. (See Page 33.)

Type T70 High Speed



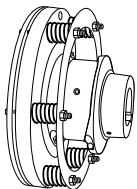
An economical spacer design for easy service of connected equipment bearings and seals. Ideal for pump applications. (See Pages 18 & 19.)

Type T35 Half Spacer



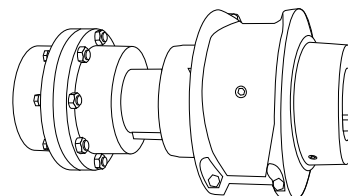
Used primarily to connect the flywheel of an engine to the driven machinery. It provides for higher torque ratings with resulting smaller sizes and lower costs than elastomer couplings. (See Page 34.)

Type T90 Flywheel



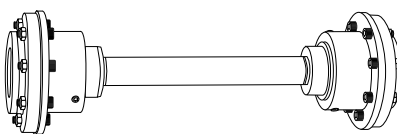
Provides adjustable slipping action to protect connected equipment from shock, jams, or temporary overloads. (See Pages 20 thru 27.)

Type T41, T42, T44 & T45 Controlled Torque



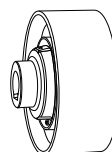
A combination of two standard Falk couplings. Utilizes readily available components for an economical price and shorter lead time than T31/T35 couplings. (See Page 35.)

Type T10/G82 Spacer



Type T50 Floating Shaft

Double piloted design for connecting equipment where the distance between shafts is too large for a spacer type coupling. (See Pages 28 & 29.)



Type BW Brakewheel

Provides a built-in braking surface right at or near the centerline of the coupling . . . saves space and dollars. (See Selection Guide 431-310.)

WARNING! Mixing grid coupling components from different manufacturers may cause premature failure and possible personal injury or property damage from flying debris.

1. Select Coupling Type
Refer to Page 6 and select the type of coupling to suit your application. If an application requires a special purpose coupling, refer application details to the local Rexnord Representative.
2. Determine Service Factor.
 - A. For MOTOR, TURBINE or ENGINE driven applications, refer to Tables 4 and 5.
 - B. For BRAKE or HIGH PEAK LOAD applications, refer to the Formula Selection Method shown on Page 8.
3. Determine Equivalent Power.
Refer to Table 4 — Under the actual kW required and opposite the service factor determined in Step 2, read the equivalent kW.
4. Determine Coupling Size.
 - A. Refer to Table 4 — Trace horizontally from the required speed to a hp value equal to or larger than the equivalent kilowatts determined in Step 3. Read the coupling size at top of column.

TABLE 2 — Equivalent Power = (Actual kW x Service Factor)

Service Factor ‡	Actual kW																														
	0.25	0.37	0.55	0.75	1.1	1.5	2.2	3	4	5.5	7.5	9.2	11	15	18.5	22	30	37	45	55	75	90	110	132	150	185	200	220	250	300	330
1.00	0.25	0.37	0.55	0.75	1.1	1.5	2.2	3	4	5.5	7.5	9.2	11	15	18.5	22	30	37	45	55	75	90	110	132	150	185	200	220	250	300	330
1.25	0.31	0.46	0.69	0.9	1.4	1.9	2.8	3.8	5	6.9	9.4	11.5	13.8	18.8	23.1	27.5	37.5	46.3	56.3	68.8	93.8	113	138	165	188	231	250	275	313	375	413
1.50	0.38	0.56	0.83	1.1	1.7	2.3	3.3	4.5	6.0	8.3	11.3	13.8	16.5	22.5	27.8	33.0	45.0	55.5	67.5	82.5	113	135	165	198	225	278	300	330	375	450	495
1.75	0.44	0.65	0.96	1.3	1.9	2.6	3.9	5.3	7.0	9.6	13.1	16.1	19.3	26.3	32.4	38.5	52.5	64.8	78.8	96.3	131	158	193	231	263	324	350	385	438	525	578
2.00	0.50	0.74	1.1	1.5	2.2	3.0	4.4	6.0	8.0	11.0	15.0	18.4	22.0	30.0	37.0	44.0	60.0	74.0	90.0	110	150	180	220	264	300	370	400	440	500	600	660
2.50	0.63	0.93	1.4	1.9	2.8	3.8	5.5	7.5	10	13.8	18.8	23.0	27.5	37.5	46.3	55.0	75.0	92.5	113	138	188	225	275	330	375	463	500	550	625	750	825
3.00	0.75	1.1	1.7	2.3	3.3	4.5	6.6	9.0	12	16.5	22.5	27.6	33.0	45.0	55.5	66.0	90.0	111	135	165	225	270	330	396	450	555	600	660	750	900	990
3.50	0.88	1.3	1.9	2.6	3.9	5.3	7.7	10.5	14	19.3	26.3	32.2	38.5	52.5	64.8	77.0	105	130	158	193	263	315	385	462	525	648	700	770	875	1050	1155

‡ For service factors not listed. Equivalent kW = Actual kW x Service Factor.

TABLE 3 — Coupling Selection . . . Based on Equivalent kW Ratings

	1020T	1030T	1040T	1050T	1060T	1070T	1080T	1090T	1000T	1100T	1120T	1130T
Max Bore (mm)	28	35	43	50	56	67	80	95	110	120	140	170
Max Speed T10	4500 rpm	4500 rpm	4500 rpm	4500 rpm	4350 rpm	4125 rpm	3600 rpm	3600 rpm	2440 rpm	2250 rpm	2025 rpm	1800 rpm
Max Speed T20	6000 rpm	6000 rpm	6000 rpm	6000 rpm	6000 rpm	5500 rpm	4750 rpm	4000 rpm	3250 rpm	3000 rpm	2700 rpm	2400 rpm
Torque (Nm)	52	149	249	435	685	995	2050	3730	6275	9320	13670	19885
kW / rpm	0,005	0,016	0,026	0,046	0,072	0,104	0,215	0,39	0,657	0,976	1,43	2,08
RPM	kW Ratings											
4500	24.5	70.2	117	205	322	469	966					
3600	19.6	56.2	94	164	258	375	773	1410	2370			
3000	16.3	46.8	78	137	215	313	644	1170	1970	2930	4290	
2500	13.6	39.0	65.2	114	179	260	537	977	1650	2440	3580	5210
2100	11.4	32.8	54.8	96	150	219	451	820	1380	2050	3010	4370
1800	9.8	28.1	46.9	82	129	188	386	703	1180	1760	2580	3750
1750	9.5	27.3	45.6	80	125	182	376	684	1150	1710	2510	3640
1450	7.9	22.6	37.8	66.1	104	151	311	566	954	1420	2080	3020
1170	6.4	18.3	30.5	53.3	84	122	251	457	770	1140	1670	2440
1000	5.4	15.6	26.1	45.6	72	104	215	391	658	976	1430	2080
870	4.7	13.6	22.7	39.6	62.3	91	187	340	572	849	1250	1810
720	3.9	11.2	18.8	32.8	51.6	75	155	281	474	703	1030	1500
650	3.5	10.1	16.9	29.6	46.5	67.7	140	254	428	634	931	1350
580	3.2	9.1	15.1	26.4	41.5	60.4	125	227	382	566	830	1210
520	2.8	8.1	13.6	23.7	37.2	54.2	112	203	342	508	744	1080
420	2.3	6.6	11.0	19.1	30.1	43.8	90	164	276	410	601	875
350	1.9	5.5	9.1	15.9	25.1	36.5	75	137	230	342	501	729
280	1.5	4.4	7.3	12.8	20.0	29.2	60.1	109	184	273	401	583
230	1.3	3.6	6.0	10.5	16.5	24.0	49.4	90	151	224	329	479
190	1.0	3.0	5.0	8.7	13.6	19.8	40.8	74.2	125	185	272	396
155	0.8	2.4	4.0	7.1	11.1	16.2	33.3	60.5	102	151	222	323
125	0.68	2.0	3.3	5.7	9.0	13.0	26.8	48.8	82	122	179	260
100	0.54	1.6	2.6	4.6	7.2	10.4	21.5	39.1	65.8	98	143	208
84	0.46	1.3	2.2	3.8	6.0	8.8	18.0	32.8	55.3	82	120	175
68	0.37	1.06	1.8	3.1	4.9	7.1	14.6	26.6	44.7	66.4	97	142
56	0.30	0.87	1.5	2.6	4.0	5.8	12.0	21.9	36.8	54.7	80	117
45	0.25	0.70	1.2	2.0	3.2	4.7	9.7	17.6	29.6	43.9	64.4	94
37	0.20	0.58	1.0	1.7	2.6	3.9	7.9	14.5	24.3	36.1	53.0	77
30	0.16	0.47	0.8	1.4	2.1	3.1	6.4	11.7	19.7	29.3	42.9	62.5
25	0.14	0.39	0.65	1.1	1.8	2.6	5.4	9.8	16.5	24.4	35.8	52.1
20	0.11	0.31	0.52	0.91	1.4	2.1	4.3	7.8	13.2	19.5	28.6	41.6
16.5	0.090	0.26	0.43	0.75	1.2	1.7	3.5	6.4	10.9	16.1	23.6	34.4
13.5	0.074	0.21	0.35	0.61	0.97	1.4	2.9	5.3	8.9	13.2	19.3	28.1
11	0.060	0.17	0.29	0.50	0.79	1.1	2.4	4.3	7.2	10.7	15.7	22.9
9	0.049	0.14	0.23	0.41	0.64	0.94	1.9	3.5	5.9	8.8	12.9	18.7
7.5	0.041	0.12	0.20	0.34	0.54	0.78	1.6	2.9	4.9	7.3	10.7	15.6
5	0.027	0.08	0.13	0.23	0.36	0.52	1.1	2.0	3.3	4.9	7.2	10.4

T20 Only.

- B. Check shaft diameters against coupling maximum bores shown in Tables 15 thru 18 for the type of coupling selected. If a larger bore is required, select a larger coupling.
- C. Check the required speed against the allowable speed shown in Table 1 for the type of coupling selected. For Type T50 Floating Shaft design, check the allowable speed from Table 12 on Page 29. If a higher speed is required, refer application details to the local Rexnord Representative.
- D. Check application dimension requirements against selected coupling type dimensions shown on Pages 14 thru 35.

- 1. Select Coupling Type — To connect close coupled shafts, and to accommodate anticipated shaft misalignment, the double engagement Type T10 coupling shown on Page 14, is the selection.
- 2. Determine Service Factor — From Table 4, Page 12, the service factor is 1.0.
- 3. Determine Equivalent HP — From Table 2, Page 10, the equivalent power is 250 kW.
- 4. Select coupling Size — (A) From Table 3, Page 11, the coupling size is 1150T10 for 68RPM. (B) From Table 3, the maximum bore of 215 mm, and allowable speed of 1500 rpm are all satisfactory. Check other dimensional information on Page 14 against the available shaft lengths, shaft gaps, and diameter restrictions.

Example:

Select a Steelflex coupling to connect the low speed shaft of a gear drive to a belt conveyor. The motor is 250 kW and the low speed shaft RPM is 68. The gear drive shaft is 160 mm and the conveyor shaft is 180 mm.

TABLE 3 — Coupling Selection . . . Based on Equivalent kW Ratings (Continued)

	1140T	1150T	1160T	1170T	1180T	1190T	1200T	1210T	1220T	1230T	1240T	1250T	1260
Max Bore (mm)	200	215	240	280	300	335	360	390	420	450	480	*	*
Max Speed T10	1650 rpm	1500 rpm	1350 rpm	1225 rpm	1100 rpm	1050 rpm	900 rpm	820 rpm	730 rpm	680 rpm	630 rpm	580 rpm	540 rpm
Max Speed T20	2200 rpm	2000 rpm	1800 rpm	1600 rpm	...	...	...	...	...	...	...	...	...
Torque (Nm)	28585	39770	55930	74570	103400	136710	186430	248570	335570	435000	559300	745700	932100
kW / rpm	2,99	4,16	5,86	7,81	10,8	14,3	19,5	26	35,1	45,6	58,6	78,1	97,6
RPM	kW Ratings												
4500													
3600													
3000													
2500													
2100	6300	8760											
1800	5400	7510	10500										
1750	5250	7300	10200	13700									
1450	4350	6050	8490	11300									
1170	3510	4880	6850	9140									
1000	3000	4170	5860	7810	10800	14300							
870	2610	3630	5100	6790	9420	12500	17000						
720	2160	3000	4220	5620	7800	10300	14100	18800	25300				
650	1950	2710	3810	5080	7040	9310	12700	17000	22900	29600			
580	1740	2420	3400	4530	6280	8300	11300	15100	20400	26400	33900	45300	
520	1560	2170	3050	4060	5630	7440	10200	13600	18300	23700	30400	40600	50800
420	1260	1750	2460	3280	4550	6010	8200	11000	14800	19100	24600	32800	41000
350	1050	1460	2050	2730	3790	5010	6830	9140	12300	15900	20500	27300	34200
280	840	1170	1640	2190	3030	4010	5470	7310	9860	12800	16400	21900	27300
230	690	959	1350	1800	2490	3290	4490	6000	8100	10500	13500	18000	22500
190	570	792	1110	1480	2060	2720	3710	4960	6690	8660	11100	14800	18500
155	465	646	908	1210	1680	2220	3030	4050	5460	7060	9070	12100	15100
125	375	521	732	976	1350	1790	2440	3260	4400	5690	7310	9760	12200
100	300	417	586	781	1080	1430	1950	2610	3520	4560	5850	7810	9760
84	252	350	492	656	910	1200	1640	2190	2960	3830	4910	6560	8200
68	204	284	398	531	736	974	1330	1770	2390	3100	3980	5310	6640
56	168	234	328	437	606	802	1090	1460	1970	2550	3280	4370	5470
45	135	188	264	351	487	644	879	1170	1580	2050	2630	3510	4390
37	111	154	217	289	401	530	722	966	1300	1690	2160	2890	3610
30	90.0	125	176	234	325	429	586	783	1060	1370	1760	2340	2930
25	75.0	104	146	195	271	358	488	653	880	1140	1460	1950	2440
20	60.0	83	117	156	217	286	390	522	704	911	1170	1560	1950
16.5	49.5	68.8	97	129	179	236	322	431	581	752	965	1290	1610
13.5	40.5	56.3	79	105	146	193	264	352	475	615	790	1050	1320
11	33.0	45.9	64.4	85.9	119	157	215	287	387	501	644	859	1070
9	27.0	37.5	52.7	70.3	97	129	176	235	317	410	527	703	878
7.5	22.5	31.3			81	107	146	196	264	342	439	586	732
5	15.0	20.9	29.3	39.0	54	72	98	131	176	228	293	390	488

* Refer to Falk.
 T20 Only.

TABLE 4 — Flexible 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
AERATOR	2.0	Welder Load.....	2.0
AGITATORS		HAMMERMILL	1.75
Vertical and Horizontal		LAUNDRY WASHER OR TUMBLER	2.0
Screw, Propeller, Paddle.....	1.0	LINE SHAFTS	
BARGE HAUL PULLER	1.5	Any Processing Machinery.....	1.5
BLOWERS		MACHINE TOOLS	
Centrifugal.....	1.0	Auxiliary and Traverse Drive.....	1.0
Lobe or Vane.....	1.25	Bending Roll, Notching Press, Punch Press, Planer, Plate, Reversing.....	1.75
CAR DUMPERS	2.5	Main Drive.....	1.5
CAR PULLERS	1.5	MAN LIFTS Not Approved	
CLASSIFIER OR CLASSIFIER COMPRESSORS	1.0	METAL FORMING MACHINES	
Centrifugal.....	1.0	Continuous Caster.....	1.75
Rotary, Lobe or Vane.....	1.25	Draw Bench Carriage and Main Drive.....	2.0
Rotary, Screw.....	1.0	Extruder.....	2.0
Reciprocating		Farming Machine and Forming Mills.....	2.0
Direct Connected..... Refer to Factory		Sliters.....	1.0
Without Flywheel..... Refer to Factory		Wire Drawing or Flattening.....	1.75
*With Flywheel and Gear between Compressor and Prime Mover		Wire Winder.....	1.5
1 cylinder, single acting.....	3.0	Coilers and Uncoilers.....	1.5
1 cylinder, double acting.....	3.0	MIXERS (see Agitators)	
2 cylinders, single acting.....	3.0	Concrete.....	1.75
2 cylinders, double acting.....	3.0	Muller.....	1.5
3 cylinders, single acting.....	3.0	PRESS, PRINTING	
3 cylinders, double acting.....	2.0	PUG MILL	1.75
4 or more cyl., single act.....	1.75	PULVERIZERS	
4 or more cyl., double act.....	1.75	Hammermill and Hog Roller.....	1.75
▲ CONVEYORS		PUMPS	
Apron, Assembly, Belt, Chain, Flight, Screw.....	1.0	Boiler Feed.....	1.5
Bucket.....	1.25	Centrifugal.....	1.0
Live Roll, Shaker and Reciprocating.....	3.0	Constant Speed.....	1.0
CRANES AND HOIST		Frequent Speed Changes under Load.....	1.25
Main Hoist.....	1.75▲	Descaling, with accumulators.....	1.25
Skip Hoist.....	1.75▲	Gear, Rotary, or Vane.....	1.25
Slope.....	1.5	Reciprocating, Plunger Piston.....	3.0
Bridge, Travel or Trolley.....	1.75	1 cyl., single or double act.....	2.0
DYNAMOMETER	1.0	2 cyl., single acting.....	1.75
ELEVATORS		2 cyl., double acting.....	1.75
Bucket, Centrifugal Discharge.....	1.25	3 or more cylinders.....	1.5
Freight or Passenger..... Not Approved		Screw Pump, Progressing Cavity.....	1.25
Gravity Discharge.....	1.25	Vacuum Pump.....	1.25
ESCALATORS Not Approved		SCREENS	
EXCITER, GENERATOR	1.0	Air Washing.....	1.0
EXTRUDER, PLASTIC	1.5	Grizzly.....	2.0
FANS		Rotary Coal or Sand.....	1.5
Centrifugal.....	1.0	Vibrating.....	2.5
Cooling Tower.....	2.0	Water.....	1.0
Forced Draft — Across the Line start.....	1.5	SKI TOWS & LIFTS Not Approved	
Forced Draft Motor		STEERING GEAR	1.0
Driven thru fluid or electric slip clutch.....	1.0	STOKER	1.0
Gas Recirculating.....	1.5	TIRE SHREDDER	1.50
Induced Draft with damper control or blade cleaner.....	1.25	TUMBLING BARREL WINCH, MANEUVERING	1.75
Induced Draft without controls.....	2.0	Dredge, Marine.....	1.5
FEEDERS		Windlass.....	1.5
Apron, Belt, Disc, Screw.....	1.0	WOODWORKING MACHINERY	1.0
Reciprocating.....	2.5	WORK LIFT PLATFORMS Not Approved	
GENERATORS			
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 ±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 ♡					
	1.0	1.25	1.5	1.75	2.0	1.0	1.25	1.5	1.75	2.0
Table 2 S.F.	1.0	1.25	1.5	1.75	2.0	1.0	1.25	1.5	1.75	2.0
Engine S.F.	2.0	2.25	2.5	2.75	3.0	1.5	1.75	2.0	2.25	2.5

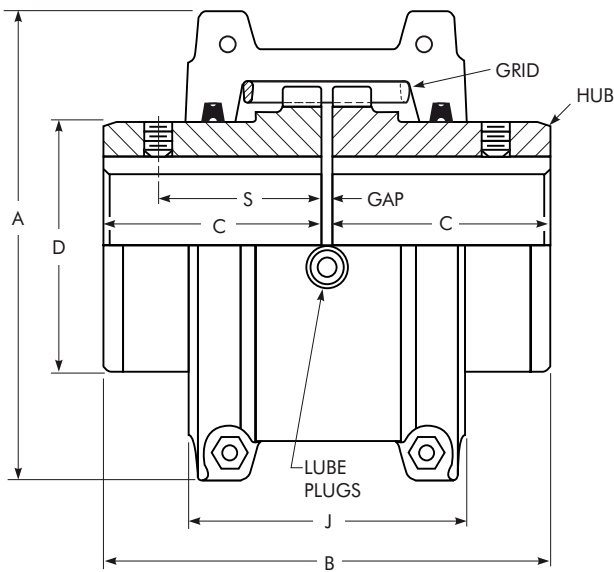
♡ To use Table 5, first determine application service factor from Table 4. Use that factor to determine ENGINE Service Factor from Table 5. When service factor from Table 4 is greater than 2.0, or where 1, 2, or 3 cylinder engines are involved, refer complete application details to Rexnord Engineering.

Alphabetical listing of industries

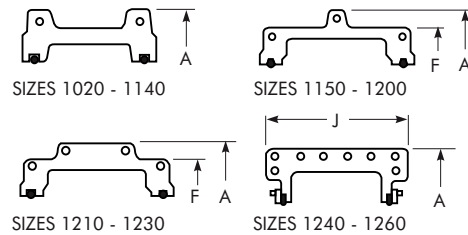
	Service Factor		Service Factor
AGGREGATE PROCESSING, CEMENT, MINING KILNS; TUBE, ROD AND BALL MILLS		Slitters, Steel Mill only.....	1.75
Direct or on U.S. shaft of Reducer, with final drive		Soaking Pit Cover Drives — Lift.....	1.0
Machined Spur Gears.....	2.0	Travel.....	2.0
Single Helical or Herringbone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

Type T10

Close Coupled/Dimensions — Millimeters



COVER PROFILES – HORIZONTAL SPLIT



Sizes 1020 thru 1230T10 covers are cast aluminum alloy;
Sizes 1240 thru 1260T10 are fabricated steel.

Type HD size range is from 1070-1140 as shown in screens below. Covers are powder-coated and seals are Nitrile.

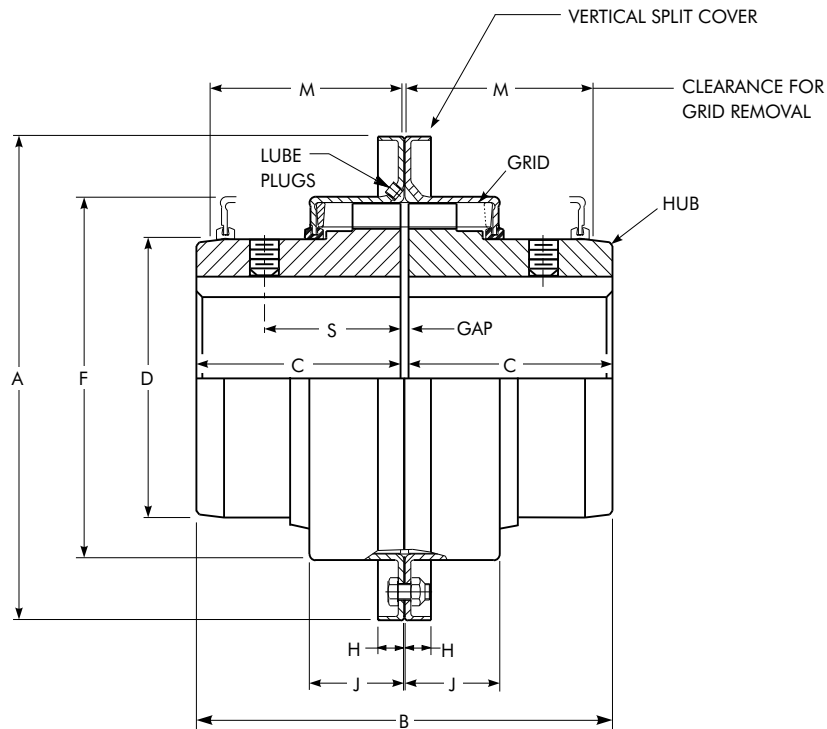
SIZE ★	Torque Rating Nm †	Allow Speed rpm ‡	Max Bore mm ●	Min Bore mm ■	Cplg Wt With No Bore-kg	Lube Wt kg	DIMENSIONS — MILLIMETERS							
							A	B	C	D	F	J	S	Gap
1020T	52	4500	28	13	1,92	0,0272	97,0	98,2	47,6	39,7	....	66,7	39,1	3
1030T	149	4500	35	13	2,58	0,0408	105,7	98,2	47,6	49,2	....	68,3	39,1	3
1040T	249	4500	43	13	3,34	0,0544	114,3	104,6	50,8	57,2	....	69,9	40,1	3
1050T	435	4500	50	13	5,44	0,0680	135,1	123,6	60,3	66,7	....	80,9	44,7	3
1060T	684	4350	56	20	7,44	0,0862	147,8	130,0	63,5	76,2	....	93,5	52,3	3
1070T	994	4125	67	20	10,4	0,113	158,8	155,4	76,2	87,3	....	96,8	53,8	3
1080T	2 050	3600	80	27	17,9	0,172	190,5	180,8	88,9	104,8	....	115,6	64,5	3
1090T	3 730	3600	95	27	25,6	0,254	211,1	199,8	98,4	123,8	....	122,2	71,6	3
1100T	6 280	2440	110	42	42,0	0,426	251,0	246,2	120,6	142,1	....	155,4	....	5
1110T	9 320	2250	120	42	54,3	0,508	269,7	259,0	127,0	160,3	....	161,5	....	5
1120T	13 700	2025	140	61	81,2	0,735	307,8	304,4	149,2	179,4	....	191,5	....	6
1130T	19 900	1800	170	67	121	0,907	345,9	329,8	161,9	217,5	....	195,1	....	6
1140T	28 600	1650	200	67	178	1,13	384,0	374,4	184,2	254,0	....	201,2	....	6
1150T	39 800	1500	215	108	234	1,95	453,1	371,8	182,9	269,2	391,2	271,5	....	6
1160T	55 900	1350	240	121	317	2,81	501,9	402,2	198,1	304,8	436,9	278,4	....	6
1170T	74 600	1225	280	134	448	3,49	566,9	437,8	215,9	355,6	487,2	307,3	....	6
1180T	103 000	1100	300	153	619	3,76	629,9	483,6	238,8	393,7	554,7	321,1	....	6
1190T	137 000	1050	335	153	776	4,40	675,6	524,2	259,1	436,9	607,8	325,1	....	6
1200T	186 000	900	360	178	1 058	5,62	756,9	564,8	279,4	497,8	660,4	355,6	....	6
1210T	249 000	820	390	178	1 424	10,5	844,6	622,6	304,8	533,4	750,8	431,8	....	13
1220T	336 000	730	420	203	1 785	16,1	920,8	663,2	325,1	571,5	822,2	490,2	....	13
1230T	435 000	680	450	203	2 267	24,0	1 003,3	703,8	345,4	609,6	904,7	546,1	....	13
1240T	559 000	630	480	254	2 950	33,8	1 087,1	749,6	368,3	647,7	....	647,7	....	13
1250T	746 000	580	♦	254	3 833	50,1	1 181,1	815,6	401,3	711,2	....	698,5	....	13
1260T	932 000	540	♦	254	4 682	67,2	1 260,9	876,6	431,8	762,0	....	762,0	....	13

★ Refer to Page 5 for General Information and Reference Notes.

♦ Refer to the Factory.

Type T20

Close Coupled/Dimensions — Millimeters



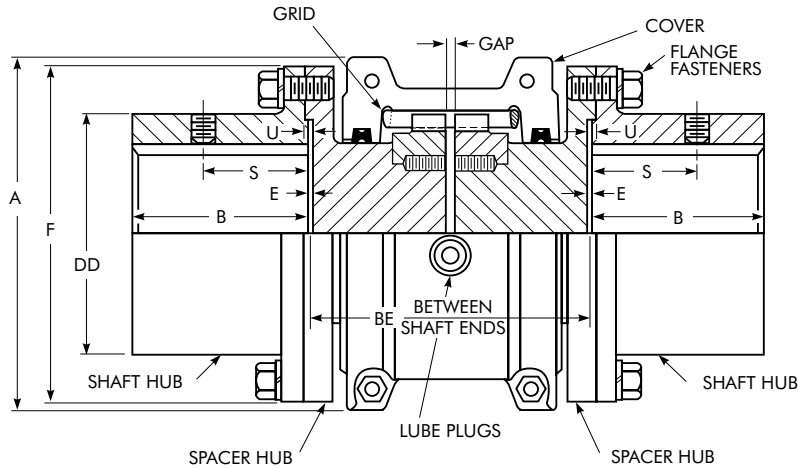
SIZE ★	Torque Rating Nm †	Allow Speed rpm ‡	Max Bore mm ●	Min Bore mm ■	Cplg Wt Without Bore-kg	Lube Wt kg	DIMENSIONS — MILLIMETERS									
							A	B	C	D	F	H	J	M	S	Gap
1020T	52	6000	28	13	1,94	0,0272	112,3	98,2	46,7	39,7	64,3	9,7	23,9	47,8	39,1	3
1030T	149	6000	35	13	2,58	0,0408	121,8	98,2	46,7	49,2	73,8	9,7	24,9	47,8	39,1	3
1040T	249	6000	43	13	3,35	0,0544	129,8	104,6	50,8	57,2	81,8	9,7	25,9	50,8	40,1	3
1050T	435	6000	50	13	5,32	0,0680	148,8	123,6	60,3	66,7	97,6	11,9	30,5	60,5	44,7	3
1060T	684	6000	56	20	7,01	0,0862	163,1	130,0	63,5	76,2	111,1	12,7	31,8	63,5	52,3	3
1070T	994	5500	67	20	10,2	0,113	174,2	155,4	76,2	87,3	122,3	12,7	33,5	66,5	53,8	3
1080T	2 050	4750	80	27	17,6	0,172	201,2	180,8	88,9	104,8	149,2	12,7	43,7	88,9	64,5	3
1090T	3 730	4000	95	27	25,4	0,254	232,9	199,8	98,4	123,8	168,3	12,7	47,0	95,2	71,6	3
1100T	6 280	3250	110	42	42,0	0,426	267,9	246,2	120,6	142,1	198,0	15,7	59,7	120,7	.....	5
1110T	9 320	3000	120	42	54,4	0,508	286,9	259,0	127,0	160,3	216,3	16,0	62,7	124,0	.....	5
1120T	13 700	2700	140	61	81,8	0,735	320,2	304,4	149,2	179,4	245,5	17,5	73,7	142,7	.....	6
1130T	19 900	2400	170	67	122	0,907	379,0	329,8	161,9	217,5	283,8	20,6	74,9	146,0	.....	6
1140T	28 600	2200	200	67	180	1,13	417,1	374,4	184,2	254,0	321,9	20,6	78,2	155,4	.....	6
1150T	39 800	2000	215	108	230	1,95	476,2	371,8	182,9	269,2	374,4	19,3 ♦	107,3	203,2	.....	6
1160T	55 900	1750	240	121	321	2,81	533,4	402,2	198,1	304,8	423,9	30,0 ♦	115,3	215,9	.....	6
1170T	74 600	1600	280	134	448	3,49	584,2	437,8	215,9	355,6	474,7	30,0 ♦	120,1	226,1	.....	6

★ Refer to Page 5 for General Information and Reference Notes.

♦ Dimension "H" is to the end of the bolt on Sizes 1150 thru 1170. Bolts are not shrouded.

Type T31

Full Spacer/Dimensions — Millimeters



SIZE ★	Torque Rating Nm †	Allow Speed rpm ‡	Max Bore mm ●	Min Bore mm ■	Cplg Wt With No Bore & Min BE kg	Wt Added Per mm of BE Over Minimum	Lube Wt kg	DIMENSIONS — MILLIMETERS											Flange Fasteners	
								A	B	BE		DD	E	F	S	U	Gap	No. per Flange & SAE Grade	Dia Inches	
										Min	Max									
1020T	52	3600	35	13	3,85	0,010	0,0272	97,0	34,9	88,9	203	52,4	0,8	85,7	27,4	1,8	5	4-Gr 8	.250	
1030T	149	3600	43	13	5,21	0,016	0,0408	105,7	41,3	88,9	216	59,5	0,8	93,7	31,5	1,8	5	8-Gr 8	.250	
1040T	249	3600	56	13	8,43	0,021	0,0544	114,3	54,0	88,9	216	78,6	0,8	112,7	27,4	1,8	5	8-Gr 8	.250	
1050T	435	3600	67	13	12,8	0,028	0,0680	135,1	60,3	111,1	216	87,3	0,8	125,4	40,6	1,8	5	8-Gr 8	.312	
1060T	684	3600	80	20	20,5	0,037	0,0862	147,8	73,0	122,2	330	103,2	1,8	144,5	43,2	2,8	5	8-Gr 8	.375	
1070T	994	3600	85	20	24,8	0,048	0,113	158,8	79,4	127,0	330	109,5	1,8	152,4	46,7	2,8	5	12-Gr 8	.375	
1080T	2 050	3600	95	27	40,0	0,069	0,172	190,5	88,9	155,5	406	122,2	1,8	177,8	49,8	2,8	5	12-Gr 5	.500	
1090T	3 730	3600	110	27	60,1	0,10	0,254	211,1	101,6	163,5	406	142,9	1,8	209,6	56,9	2,8	5	12-Gr 5	.625	
1100T	6 280	2440	130	39	90,2	0,12	0,426	251,0	90,4	203,2	406	171,4	1,6	250,8	.....	3,2	6	12-Gr 5	.750
1110T	9 320	2250	150	51	119	0,16	0,508	269,7	104,1	209,6	406	196,8	1,6	276,2	.....	3,2	6	12-Gr 5	.750
1120T	13 700	2025	170	64	178	0,20	0,735	307,8	119,4	246,1	406	225,4	1,6	319,1	.....	4,0	10	12-Gr 5	.875
1130T	19 900	1800	190	77	237	0,29	0,907	345,9	134,6	257,1	406	238,1	1,6	346,1	.....	4,0	10	12-Gr 5	1.000
1140T	28 600	1650	210	89	327	0,40	1,13	384,0	152,4	266,7	406	266,7	1,6	385,8	.....	4,0	10	12-Gr 5	1.125

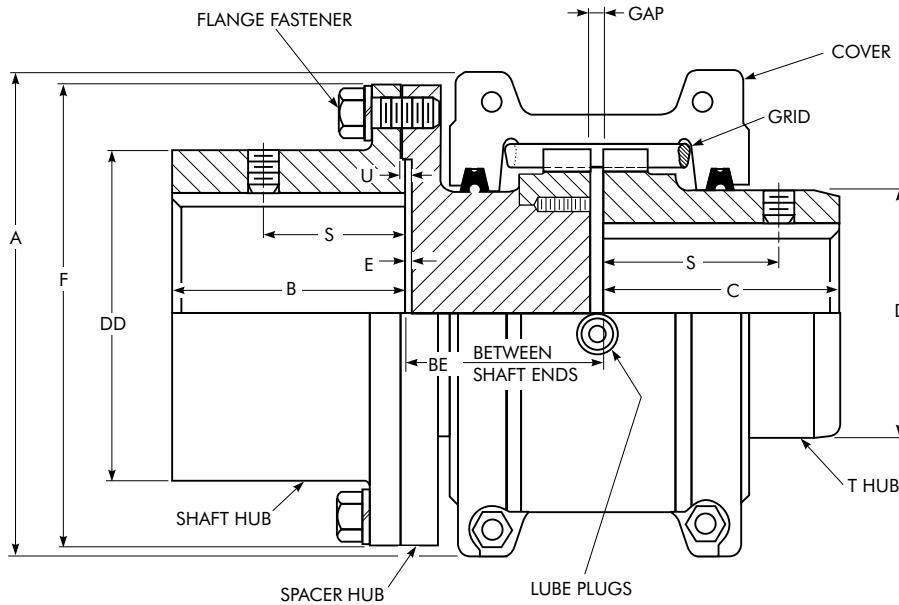
★ Refer to Page 5 for General Information and Reference Notes.

**TABLE 6 — Type T31 Standard Stock Spacer Lengths
(BE=Distance Between Shaft Ends)**

Between Shaft Ends		Pump Std	COUPLING SIZE									
Millimeters	Inch		1020T	1030T	1040T	1050T	1060T	1070T	1080T	1090T	1100T	1110T
89	3.5	ANSI	X	X	X							
100	3.94	ISO	X	X	X							
108	4.25	MISC	X	X	X							
111	4.38	ANSI	X	X	X	X						
119	4.69	MISC	X	X	X	X						
127	5.00	ANSI	X	X	X	X	X	X				
133	5.22	MISC	...	...	X							
137	5.38	MISC	...	X	X							
140	5.51	ISO	X	X	X	X	X	X				
144	5.66	MISC	...	X	X							
148	5.81	MISC	...	X	X	X						
152	5.97	MISC	...	...	X	X						
155	6.12	MISC	...	X	X	X	X	X				
176	6.94	MISC	X	X	X	X	X					
178	7.00	ANSI	...	...	...	...	...	X	X			
180	7.09	ISO	...	...	X	X	...	X	X	X		
184	7.25	ANSI	...	X	X	X	X	X	X			
203	8.00	MISC	...	...	...	...	...	...	...	X		
218	8.59	MISC	...	...	...	...	...	...	...	...	X	
219	8.62	MISC	...	...	...	...	...	X	X			
226	8.88	MISC	...	...	...	...	...	...	...	...	X	
248	9.75	ANSI	...	...	...	...	...	X	X	X	X	X
250	9.84	ISO	...	...	...	...	...	...	...	...	X	X
252	9.94	MISC	...	...	...	...	...	...	...	X		
282	11.09	MISC	...	...	...	...	...	...	...	X		
311	12.25	ANSI	...	...	...	...	...	X	X	X	X	
357	14.05	MISC	...	...	...	...	...	...	...	...	...	X

Type T35

Half Spacer/Dimensions — Millimeters



SIZE ★	Torque Rating Nm †	Allow Speed rpm ‡	Max Bore mm •		Min Bore mm ■	Cplg Wt With No Bore & Min BE kg	Wt Added Per mm of BE Over Minimum	Lube Wt kg	DIMENSIONS — MILLIMETERS														Flange Fasteners	
			Shaft Hub	T Hub					A	B	BE		C	D	DD	E	F	S		U	Gap	No. Per Flange & Grade	Dia Inches	
											Min	Max						Shaft Hub	T Hub					
1020T	52	3600	35	28	13	2,89	0,010	0,0272	97,0	34,9	45,2	102	47,6	39,7	52,4	0,8	85,7	27,4	39,1	1,8	3	4 — Gr 8	.250	
1030T	149	3600	43	35	13	3,89	0,016	0,0408	105,7	41,3	45,2	109	47,6	49,2	59,5	0,8	93,7	31,5	39,1	1,8	3	8 — Gr 8	.250	
1040T	249	3600	56	43	13	5,88	0,021	0,0544	114,3	54,0	45,2	109	50,8	57,2	78,6	0,8	112,7	27,4	40,1	1,8	3	8 — Gr 8	.250	
1050T	435	3600	67	50	13	9,12	0,028	0,0680	135,1	60,3	56,3	109	60,3	66,7	87,3	0,8	125,4	40,6	44,7	1,8	3	8 — Gr 8	.312	
1060T	684	3600	80	56	20	13,9	0,037	0,0862	147,8	73,0	61,9	166	63,5	76,2	103,2	1,8	144,5	43,2	52,3	2,8	3	8 — Gr 8	.375	
1070T	994	3600	85	67	20	17,6	0,048	0,113	158,8	79,4	64,3	166	76,2	87,3	109,5	1,8	152,4	46,7	53,8	2,8	3	12 — Gr 8	.375	
1080T	2 050	3600	95	80	27	28,9	0,069	0,172	190,5	88,9	78,6	204	88,9	104,8	122,2	1,8	177,8	49,8	64,5	2,8	3	12 — Gr 5	.500	
1090T	3 730	3600	110	95	27	42,8	0,10	0,254	211,1	101,6	82,6	204	98,4	123,8	142,9	1,8	209,6	56,9	71,6	2,8	3	12 — Gr 5	.625	
1100T	6 280	2440	130	110	42 ♦	66,1	0,12	0,426	251,0	90,4	103,2	205	120,6	142,1	171,4	1,6	250,8	.....	.....	3,0	5	12 — Gr 5	.750
1110T	9 320	2250	150	120	42 ♦	84,6	0,16	0,508	269,7	104,1	106,4	205	127,0	160,3	196,8	1,6	276,2	.....	.....	3,0	5	12 — Gr 5	.750
1120T	13 700	2025	170	140	61 ♦	129	0,20	0,735	307,8	119,4	124,6	205	149,2	179,4	225,4	1,6	319,1	.....	.....	4,0	6	12 — Gr 5	.875
1130T	19 900	1800	190	170	67 ♦	179	0,29	0,907	345,9	134,6	130,1	205	161,9	217,5	238,1	1,6	346,1	.....	.....	4,0	6	12 — Gr 5	1.000
1140T	28 600	1650	210	200	67 ♦	252	0,40	1,130	384,0	152,4	134,9	205	184,2	254,0	266,7	1,6	358,8	.....	.....	4,0	6	12 — Gr 5	1.125

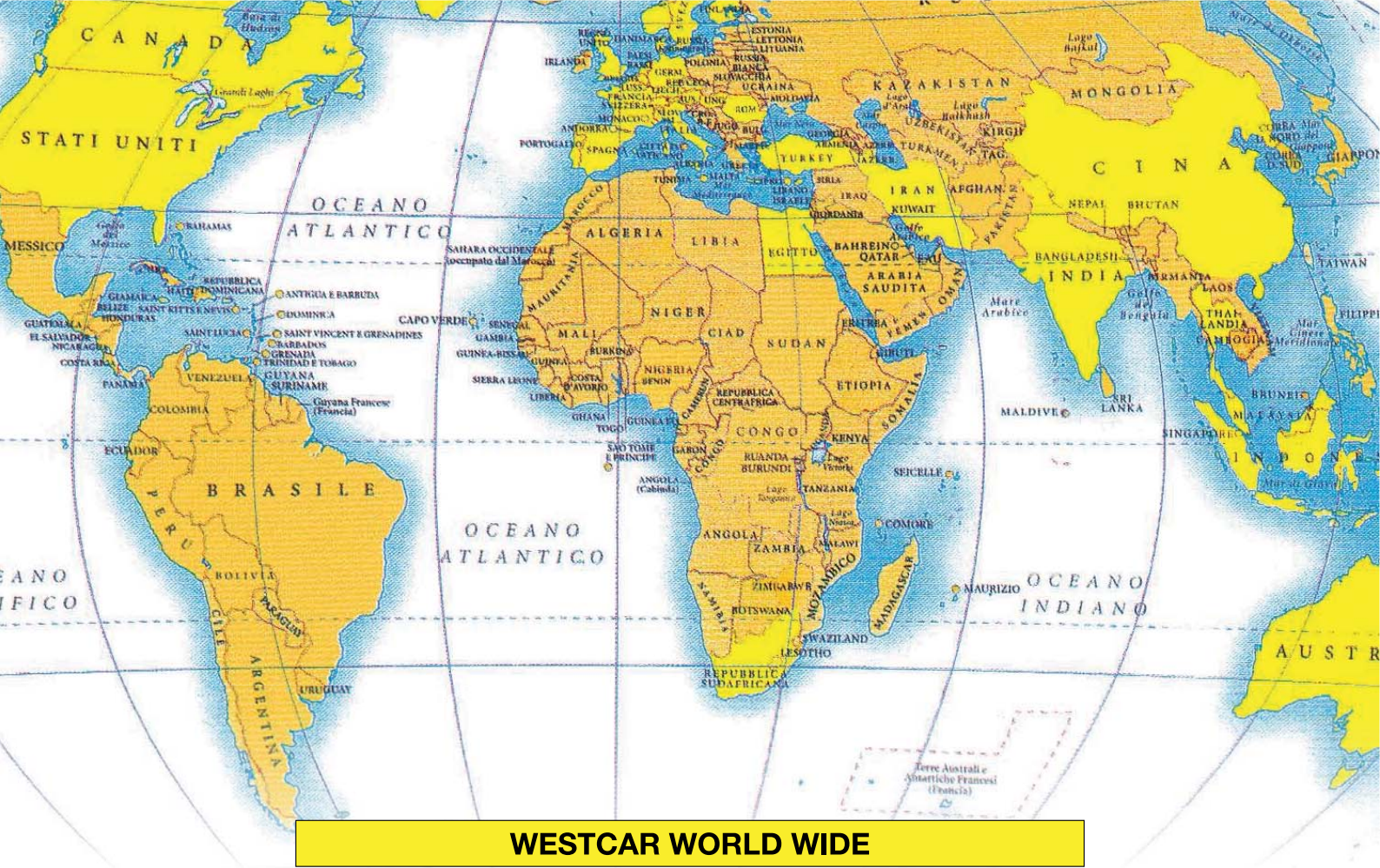
★ Refer to Page 5 for General Information and Reference Notes.

♦ Minimum bores are for the T Hub. Shaft hub bores are 39, 51, 64, 77, and 89 respectively.

TABLE 7 — Type T35 Half Spacer Coupling Standard Stock Spacer Lengths

Between Shaft Ends		Pump Std	COUPLING SIZE *									
Millimeter	Inch		1020T	1030T	1040T	1050T	1060T	1070T	1080T	1090T	1100T	1110T
45	1.78	MISC	X	X	X							
56	2.22	MISC	X	X	X	X						
64	2.53	MISC	X	X	X	X	X					
71	2.79	MISC	X	X	X	X	X	X				
89	3.50	ANSI	X	X	X	X	X					
90	3.53	MISC	...	...	...	...	X	X			
93	3.66	MISC	...	X	X	X	X	X	X			
91	3.58	MISC	...	...	...	...	X	X	X		
103	4.06	MISC	...	...	...	...	...	...	...	X	
125	4.94	MISC	...	...	...	...	...	...	...	X	X
127	5.00	ANSI	...	...	...	...	...	...	...	X	X
140	5.51	ISO	...	...	...	...	...	...	X	X	
156	6.16	MISC	...	...	...	...	X	X	X	X	
157	6.19	MISC	...	...	...	...	...	...	...	X	
180	7.09	ISO	...	...	...	...	...	...	...	...	X

* CAUTION: To permit removal of T35 shaft hub without moving connected equipment, select a half spacer with dimension BE (in Table 5) greater than dimension B (in uppermost table) or overhang the shaft hub. Refer to the Factory for maximum overhang allowed.



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| <input type="checkbox"/> Austria | <input type="checkbox"/> Holland | <input type="checkbox"/> Singapore |
| <input type="checkbox"/> Belgium | <input type="checkbox"/> Hungary | <input type="checkbox"/> Slovenia |
| <input type="checkbox"/> Canada | <input type="checkbox"/> India | <input type="checkbox"/> South Africa |
| <input type="checkbox"/> Ceca Republik | <input type="checkbox"/> Indonesia | <input type="checkbox"/> Spain |
| <input type="checkbox"/> China - Shanghai | <input type="checkbox"/> Iran | <input type="checkbox"/> Sweden |
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| <input type="checkbox"/> Denmark | <input type="checkbox"/> Korea | <input type="checkbox"/> Taiwan |
| <input type="checkbox"/> Egypt | <input type="checkbox"/> Malaysia | <input type="checkbox"/> Thailand |
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