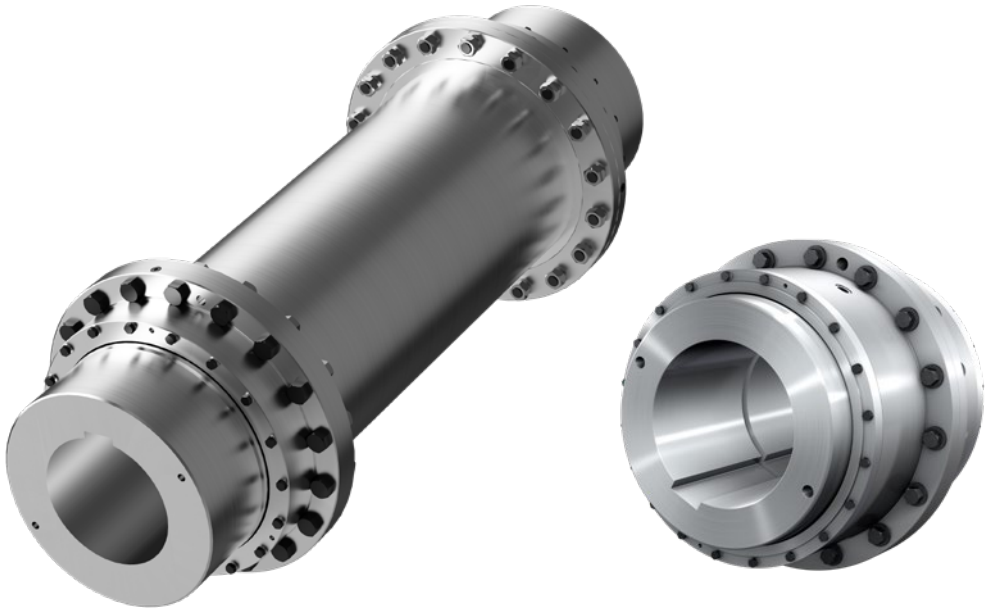
JAURE™

PRODUCT CATALOG

JAURE™ MTGR GEAR COUPLINGS

TECHNICAL DATA



RegalRexnord™

JAURE™ MTGR GEAR COUPLINGS

CONTENTS

Jaure™ MTGR Gear Couplings

COUPLING SELECTION

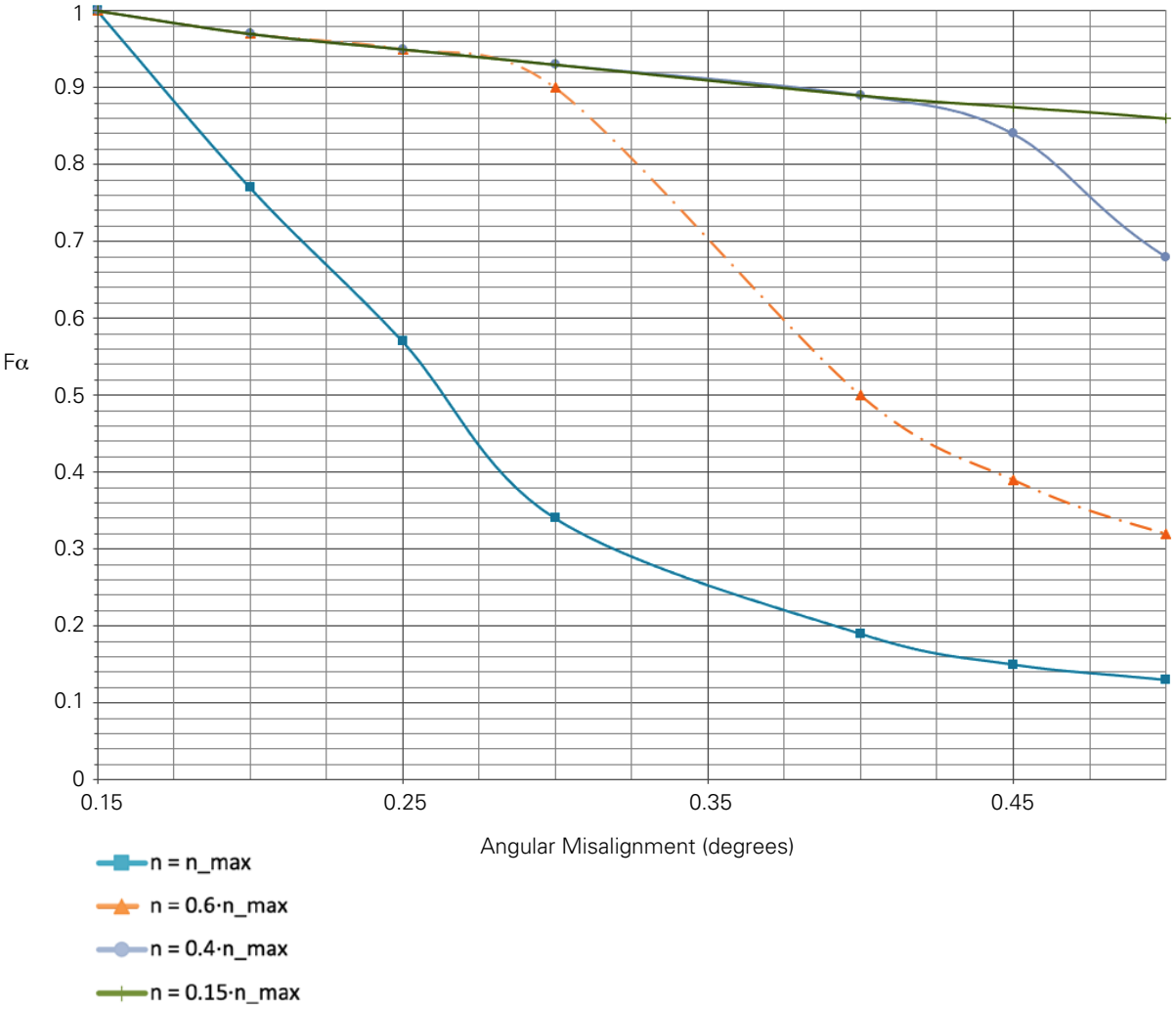
For MTGR standard design selection, the following data is required:

- PN, Installed or absorbed power (kW)
- n, operating speed (rpm)
- L, d shaft lengths and diameters (mm)
- DBSE distance between shaft ends (mm)
- Service requirements (K service factor from **page 7**)
- Dynamic misalignment (Fα misalignment factor from **Figure 1,** below)
- Additional geometrical or atmospheric restrictions

Torque capacity varies with speed and dynamic misalignment.

A coefficient (fα = Coefficient factor from dynamic misalignment and speed) is required over 0,15 degrees of misalignment and is affected in the following trend:

Fig. 1 – **Trend of Coefficient with Dynamic Misalignment and Speed**



Above graph shows one gear mesh misalignment.

Values shown in the graph are illustrative. For accurate calculation or higher angular misalignment, please contact Regal Rexnord™ Jaure™ product engineering.

COUPLING SELECTION (Cont.)

SELECTION PROCEDURE

1. Calculate nominal torque TN (Nm) as follows:

$$T = 9550 \frac{P_N \bullet K}{n \bullet F\alpha}$$

PN= Max. actual power in (kW) K= Service factor
n= Coupling speed in (rpm.) Fα = Misalignment factor

Select coupling size from catalogue with nominal torque capacity same or higher than obtained in the calculation. Check if the peak torque of the application is below the coupling max. torque (TPmax).

2. Check in the catalogue maximum bore capacity for selected coupling. Should shafts be larger than the maximun admissible bore, select next bigger necessary size diameter.

3. Check shaft/hub connection is able to transmit the torque. If necessary, extend the hub length.

4. Speed given in catalogue is maximun value for unbalanced couplings. Speeds in this catalogue are given for both balanced and unbalanced couplings. Please contact Jaure™ coupling engineering for support.

5. Selection Service Factors (K): Recommended service factors are given on **page 7.**

   The service factor can vary for each application and depending, among other factors, on:

   a. Type of driving and driven machine

   b. Reversing / Non-reversing load

   c. Peak torques

Example:

- Find a coupling to connect a motor with the Gearbox of a Steel Hot Mill.
- Motor power PN = 4000 kW
- Peak torque: 975 kNm
- Motor speed n = 200 rpm
- Motor shaft d1 = 360 mm
- Gearbox side shaft d2 = 350 mm
- Dynamic misalignment < 0,15 degrees. Fα=1
- Service Factor for Hot Mills on **page 7**, K=3.00

Solution:

$$T = 9550 \frac{4000 \bullet 3.0}{200 \bullet 1} = 573\ kNm$$

Nominal torque needs to be checked as a first step. From MTGR basic design, we would select MTGR-375. Secondly, we need to check maximum shaft capacity for selected size.

This would lead to the selection of MTGR-375, as well.

Check that peak torque of application, 975 kNm, is bellow selected coupling limit. (1300 in this case).

With this selection, resulting service factor can be calculated: Since

$$T\,application = 9550 \frac{4000}{200} = 191\ kNm$$

Resulting Service Factor can be calculated as

$$k = \frac{650}{191} = 3{,}4$$

BALANCING

Coupling balance requirements and limits are mainly dependent upon the characteristics of the application. For this reason, balancing charts should be used as a guide only to assist in determining whether balancing is required or not.

Balancing chart is shown for average applications. For sensitive or critical application, contact Regal Rexnord™ Jaure™ coupling engineering for coupling balance requirement.

Fig. 2 – **Balance Chart for Non Spacer Type Gear Couplings**

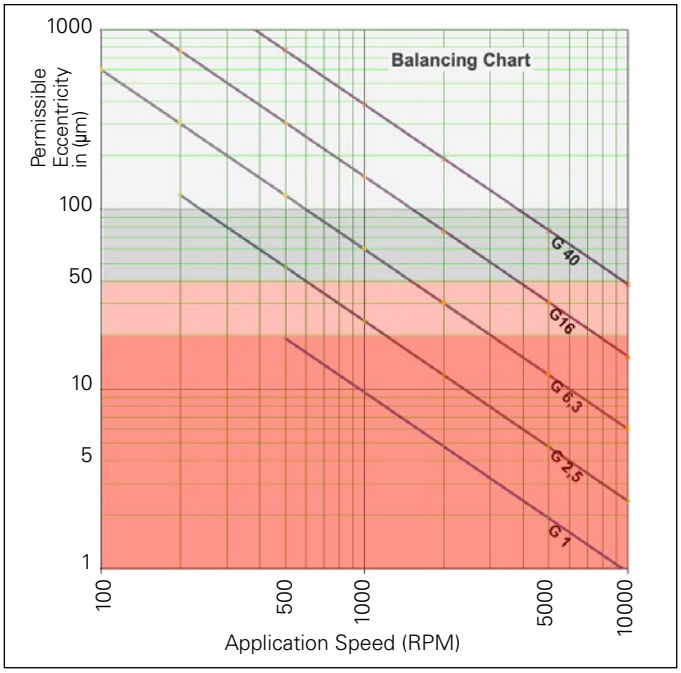
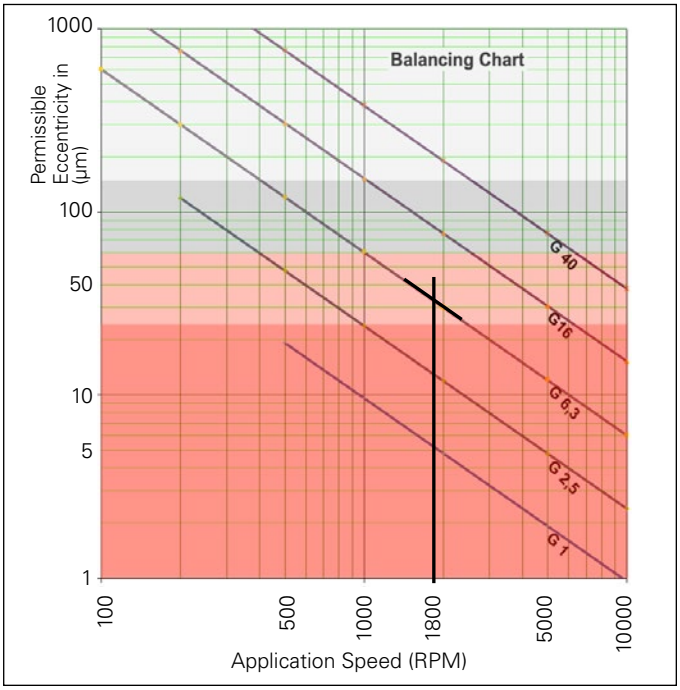


Fig. 3 – **Balance Chart for Intermediate Shaft Couplings up to 1000 mm of DBSE**

(For higher DBSE please refer to Regal Rexnord Jaure product engineering.)



Color codes for Balancing Condition:

Standard | Fine | Superior | Under Request

Minimum applications data required for chart interpretation:

1. ISO balancing grade for the coupling. (G)
2. Application speed (n)

This information allows to calculate the permissible eccentricity (e permissible) for the coupling.

e permissible = 9550.G/n

Where,

e permissible *= Permissible eccentricity of center of gravity in µm.*

e coupling *= Actual eccentricity of center of gravity of coupling in µm.*

G *= Balance grade in mm/s*

n *= Application speed in rpm.*

In order to satisfy the application requirement, e coupling ≤ e permissible.

Balancing Practices

Jaure couplings are dynamically balanced in component level or in sub-assembly.

In case of sub-assembly balancing level, major components are match-marked to ensure the proper reassembly of the coupling.

Hubs are component balanced at finished bore without keyways unless mentioned in the order.

On special request from customer, assembly balancing of gear coupling including gear hubs can be performed.

Balancing reports will be available for customer upon request.

Example:

Coupling Type – Spacer type gear coupling.
DBSE – 600 mm
Required Balance Quality – 6.3
Application Speed – 1800 rpm

As per the chart, we require performance of the superior balancing for the spacer coupling to achieve the 6.3 balancing grade as per ISO-1940-1.

Alternatively:
e permissible = 9550.G/n
= 9550. (6.3)/1800
= 33,4 µm

From the chart (Y-axis) for 33,4 µm permissible eccentricity, coupling requires superior balancing.

RECOMMENDED SERVICE FACTORS (K)

Values listed are intended only as a general guide, and are typical of usual service requirements. For systems which frequently utilize the peak torque capability of the power source, verify that the magnitude of this peak torque does not exceed the 1.0 Service Factor Rating of the coupling selected. Applications which involve extreme repetitive shock or high-energy load absorption characteristics should be referred -with full particulars- to Regal Rexnord™ Jaure™ product engineering.

Values contained in the table are to be applied to smooth power sources such as electric motors and steam turbines. For drives involving internal combustion engines of four or five cylinders, add 1.0 to the values listed; for six or more cylinders, add 0.5 to the values listed. For systems utilizing AC or DC mill motors as the prime mover, refer to Note (1).

CAUTION: All people-moving applications must be referred to engineering.

APPLICATION	TYPICAL SERVICE FACTOR
AGITATORS	
Pure Liquids	1.0
Liquids & Solids	1.25
Liquids - Variable Density	1.25
BLOWERS	
Centrifugal	1.0
Lobe	1.5
Vane	1.25
BRIQUETTE MACHINES	2.0
CAR PULLERS - Intermittent Duty	1.5
COMPRESSORS	
Centrifugal	1.0
Centriaxial	1.25
Lobe	1.5
Reciprocating-Multi-Cylinder	2.0
CONVEYORS-LIGHT DUTY UNIFORMLY FED	
Apron, Bucked, Chain, Flight, Screw	1.25
Assembly, Belt	1.0
Oven	1.5
CONVEYORS-HEAVY DUTY NOT UNIFORMLY FED	
Apron, Bucket, Chain, Flight, Over	1.5
Assembly, Belt	1.25
Reciprocating, Shaker	2.5
CRANES AND HOISTS (NOTES 1 AND 2)	
Main hoists, Reversing	2.5
Skip Hoists, Trolley & Bridge Drives	2.0
Slope	2.0
CRUSHERS	
Ore, Stone	2.0
DREDGES	
Cable Reels	1.75
Conveyors	1.5
Cutter Head Jig Drives	2.5
Maneuvering Winches	1.75
Pumps	1.75
Screen Drives	1.75
Stackers	1.75
Utility Winches	1.5
ELEVATORS (NOTE 2)	
Bucket	1.75
Centrifugal & Gravity Discharge	1.5
Escalators	1.5
Freight	2.5
FANS	
Centrifugal	1.0
Cooling Towers	1.5
Forced Draft	1.5
Induced Draft without Damper Control	2.0
FEEDERS	
Apron, Belt, Disc, Screw	1.25
Reciprocating	2.5
GENERATORS	
(Not Welding)	1.0
HAMMER MILLS	2.0
LAUNDRY WASHERS	
Reversing	2.0
LAUNDRY TUMBLERS	2.0
LINE SHAFT	1.5
LUMBER INDUSTRY	
Barkers-Drum Type	2.0
Edger Feed	2.0
Live Rolls	2.0
Log Haul-Incline	2.0
Log Haul-Well type	2.0
Off Bearing Rolls	2.0
Planer Feed Chains	1.75
Planer Floor Chains	1.75
Planer Tilting Hoist	1.75
Slab Conveyor	1.5
Sorting Table	1.5
Trimmer Feed	1.75
MARINE PROPULSION	
Main Drives	2.25-2.5
MACHINE TOOLS	
Bending Roll	2.0
Plate Planer	1.5
Punch Press - Gear Driven	2.0
Tapping Machines	2.5
Other Machine Tools	
Main Drives	1.5
Auxiliary Drives	1.25
METAL MILLS	
Draw Bench - Carriage	2.0
Draw Bench - Main Drive	2.0
Forming Machines	2.0
Slitters	1.5
Table Conveyors	
Non-Reversing	2.25
Reversing	2.5
Wire Drawing & Flattening Machine	2.0
Wire Winding Machine	1.75
METAL ROLLING MILLS (NOTE 1)	
Blooming Mills	*
Coilers,hot mill	2.0
Coilers cold mill	1.25
Cold Mills	2.0
Cooling Beds	1.75
Door Openers	2.0
Draw Benches	2.0
Edger Drives	1.75
Feed Rolls, Reversing Mills	3.5
Furnace Pushers	3.5
Hot Mills	3.0
Ingot Cars	2.5
Kick-outs	2.5
Manipulators	3.0
Merchant Mills	3.0
Piercers	3.0
Pushers Rams	2.5
Reel Drives	1.75
Reel Drums	2.0
Reelers	3.0
Rod and Bar Mills	1.5
Roughing Mill Delivery Table	3.0
Runout Tables	
Reversing	3.0
Non-Reversing	2.0
Saws, hot & cold	2.5
Screwdown Drives	3.0
Skelp Mills	3.0
Slitters	3.0
Slabbing Mills	3.0
Soaking Pit Cover Drives	3.0
Straighteners	2.5
Tables, transfer & runout	2.0
Thurst Block	3.0
Traction Drive	3.0
Tube Conveyor Rolls	2.5
Unscramblers	2.5
Wire Drawing	1.5
MILLS, ROTARY TYPE	
Ball	2.25
Dryers & Coolers	2.0
Hammer	1.75
Kilns	2.0
Pebble & Rod	2.0
Pug	1.75
Tumbling Barrels	2.0
MIXERS	
Concrete Mixers	1.75
Drum Type	1.5
OIL INDUSTRY	
Chillers	1.25
Paraffin Filter Press	1.75
PAPER MILLS	
Barker Auxiliaries, Hydraulic	2.0
Barker, Mechanical	2.0
Barking Drum Spur Gear Only	2.25
Beater & Pulper	1.75
Bleacher	1.0
Calenders	2.0
Chippers	2.5
Coaters	1.0
Converting Machines except Cutters, Platers	1.5
Couch Roll	1.75
Cutters, Platers	2.0
Cylinders	1.75
Disc Refiners	1.75
Dryers	1.25
Felt Stretcher	1.25
Felt Whipper	2.0
Jordans	1.75
Line Shaft	1.5
Log Haul	2.0
Pulp Grinder	1.75
Press Roll	2.0
Reel	1.5
Stock Chests	1.5
Suction Roll	1.75
Washers & Thickeners	1.5
Winders	1.5
PRINTING PRESSES	1.5
PULLERS - Barge Haul	2.0
PUMPS	
Centrifugal	1.0
Boiler Feed	1.5
Reciprocating	
Single Acting	
1 or 2 Cylinders	2.25
3 or more Cylinders	1.75
Doble Acting	2.0
Rotary, Gear, Lobe, Vane	1.5
RUBBER INDUSTRY	
Mixer - Banbury	2.5
Rubber Calendar	2.0
Rubber Mill (2 or more)	2.25
Sheeter	2.0
Tire Building Machines	2.5
Tire & Tube Press Openers	1.0
Tubers & Strainers	2.0
SCREENS	
Air Washing	1.0
Grizzly	2.0
Rotary - Stone or Gravel	1.5
Traveling Water Intake	1.25
Vibrating	2.5
SEWAGE DISPOSAL EQUIPMENT	
Bar Screens	1.25
Chemical Feeders	1.25
Collectors, Circuline or Straightline	1.25
Dewatering Screens	1.25
Grit Collectors	1.25
Scum Breakers	1.25
Slow or Rapid Mixers	1.25
Sludge Collectors	1.25
Thickeners	1.25
Vacuum Filters	1.25
STEERING GEAR	1.0
STOKERS	1.0
WINCH	1.5
WINDLASS	1.75

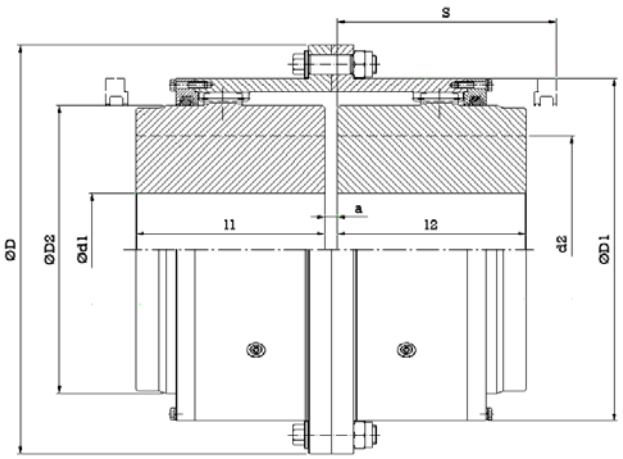
* Refer to Regal Rexnord Jaure product engineering.

NOTES:

(1) Maximun Torque at the coupling must not exceed Rated Torque of the coupling.

(2) Check local and industrial safety codes.

MTGR-HD FULL-FLEX



SIZE	① TN NOMINAL	① TP MAX.	⑦ n MAX. BALANCED	⑧ n MAX. NOT BALANCED	D	D1	D2	②③ d1-d2 (MIN.-MAX.)	l1-l2	A	④ S	⑤ WEIGHT MAX	⑥ WEIGHT MIN	⑤ MOMENT OF INERTIA J	⑨ GREASE QTY.
MTGR-HD	kN·m	kN·m	rpm	rpm	mm	mm	mm	mm	mm	mm	mm	kg	kg	kg·m²	kg
300	400	800	1.800	720	540	453	380	155 - 300	250	16	300	515	308	15	4.9
330	475	950	1.600	640	580	491	410	165 - 330	265	16	315	638	367	21	6.2
375	650	1.300	1.500	600	655	542	458	175 - 375	300	16	350	907	495	37	7.6
405	840	1.680	1.400	560	700	587	506	195 - 405	320	16	365	1.127	625	54	9,4
440	1.125	2.250	1.300	520	760	649	555	215 - 440	350	20	405	1.479	837	85	12.9
475	1.330	2.660	1.200	480	805	693	595	235 - 475	365	20	420	1.749	975	115	130
510	1.600	3.200	1.100	440	860	737	635	255 - 510	400	20	450	2.173	1.203	163	16.9
560	1.980	3.960	1.050	420	930	798	691	275 - 560	415	25	495	2.203	1.428	220	20.8
590	2.500	5.000	950	380	985	854	736	290 - 590	430	25	520	3.127	1.718	311	26.4
630	2.970	5.940	900	360	1.070	929	808	305 - 630	460	25	540	4.030	2.298	472	31.2
700	4.290	8.580	800	320	1.175	1.010	878	345 - 700	510	30	620	5.259	2.916	741	39.6
800	6.270	12.540	700	280	1.340	1.164	1.020	395 - 800	560	30	670	7.737	4.383	1.444	50.9
870	7.360	14.720	680	272	1.420	1.240	1.078	425 - 870	580	35	700	8.954	4.818	1.886	69.5
950	8.500	17.000	660	264	1.490	1.311	1.142	450 - 950	600	35	725	10.354	5.162	2.432	76.8
1050	11.962	23.925	590	236	1.645	1.448	1.268	505 - 1050	660	35	790	13.905	6.989	4.008	99.0
1200	18.500	37.000	500	200	1.830	1.620	1.428	555 - 1200	760	35	940	20.165	9.531	7.216	123.2

Coupling is supplied with puller holes. Set screws included upon request. Adapted hub lengths available upon request.

① The torque of the coupling does not include the connection transmission capacity.

② Minimum dimensions refer to already machined bore. For A00 rough bore dimensions contact Regal Rexnord™ Jaure™ product engineering.

③ Max. allowable bore for couplings with DIN 6885/1 keys. For other types of keys or connections please contact Regal Rexnord Jaure product engineering.

④ Clearance to align coupling hubs and replacement of sealing rings.

⑤ Weight and moment of inertia are given for minimum bore.

⑥ Weight is given for maximum bore.

⑦ n MAX speed for balanced couplings with guiding ring. Speeds higher than 40% of the maximum require balancing and guide ring. For high speed applications, contact Regal Rexnord Jaure product engineering.

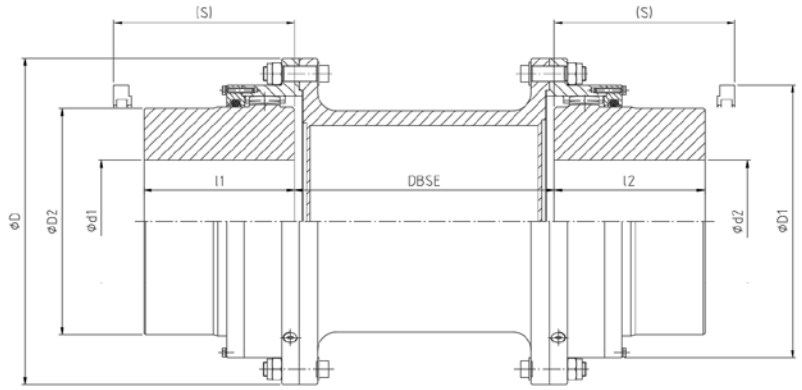
⑧ n Max speed for non-balanced couplings

⑨ The amount of grease indicated in the catalogue is for guidance only. For exact amount please refer to coupling instructions.

Contact Regal Rexnord Jaure Product Engineering at:

jaure.ptsolutions@regalrexnord.com

MTGRX-HD WITH SPACER



SIZE	① TN NOMINAL	① TP MAX.	⑦ MAX. SPEED	D	D1	D2	②③ d1-d2 (MIN-MAX)	l1-l2	④ S	⑤ WEIGHT MAX	⑥ WEIGHT MIN	WEIGHT PER 100MM SPACER	⑤ MOMENT OF INERTIA J	MOMENT OF INERTIA PER 100MM SPACER J
MTGRX-HD	kN·m	kN·m	rpm	mm	mm	mm	mm	mm	mm	kg	kg	kg	kg·m²	kg·m²
300	400	800	For max. allowable speed contact Regal Rexnord™ Jaure™	540	453	380	155 - 300	250	300	816	608	29	26,87	1,10
330	475	950		580	491	410	165 - 330	265	315	962	690	32	36,74	1,45
375	650	1.300		655	542	458	175 - 375	300	350	1.339	926	41	63,20	2,30
405	840	1.680		700	587	506	195 - 405	320	365	1.599	1.095	45	88,00	3,12
440	1.125	2.250		760	649	555	215 - 440	350	405	2.048	1.403	56	133	4,58
475	1.330	2.660		805	693	595	235 - 475	365	420	2.358	1.581	61	175	5,91
510	1.600	3.200		860	737	635	255 - 510	400	450	2.983	2.008	82	254	8,96
560	1.980	3.960		930	798	691	275 - 560	415	495	3.541	2.309	88	349	11,18
590	2.500	5.000		985	854	736	290 - 590	430	520	4.071	2.656	94	451	13,74
630	2.970	5.940		1.070	929	808	305 - 630	460	540	5.078	3.337	104	661	18,34
700	4.290	8.580		1.175	1.010	878	345 - 700	510	620	6.642	4.288	135	1.039	28,00
800	6.270	12.540		1.340	1.164	1.020	395 - 800	560	670	9.447	6.078	169	1.935	47,24
870	7.360	14.720		1.420	1.240	1.078	425 - 870	580	700	11.441	6.613	180	2.497	57,25
950	8.500	17.000		1.490	1.311	1.142	450 - 950	600	725	12.358	7.145	205	3.155	72,98
1050	11.962	23.925		1.645	1.448	1.268	505 - 1050	660	790	16.421	9.483	260	5.133	114
1200	18.500	37.000		1.830	1.620	1.428	555 - 1200	760	940	23.349	12.689	346	8.986	189

Distance to be specified by the customer. DBSE is distance between shaft ends, not between flanges.
Coupling is supplied with puller holes. Set screws included upon request. Adapted hub lengths available upon request.

① The torque of the coupling does not include the connection transmission capacity.

② Minimum dimensions refer to already machined bore. For A00 rough bore dimensions contact Regal Rexnord Jaure product engineering.

③ Maximum allowable bore for couplings with DIN 6885/1 keys. For other types of keys or connections please contact Regal Rexnord Jaure product engineering.

④ Clearance to align coupling hubs and replacement of sealing rings.

⑤ Weight and moment of inertia are given for solid bore and 1m DBSE.

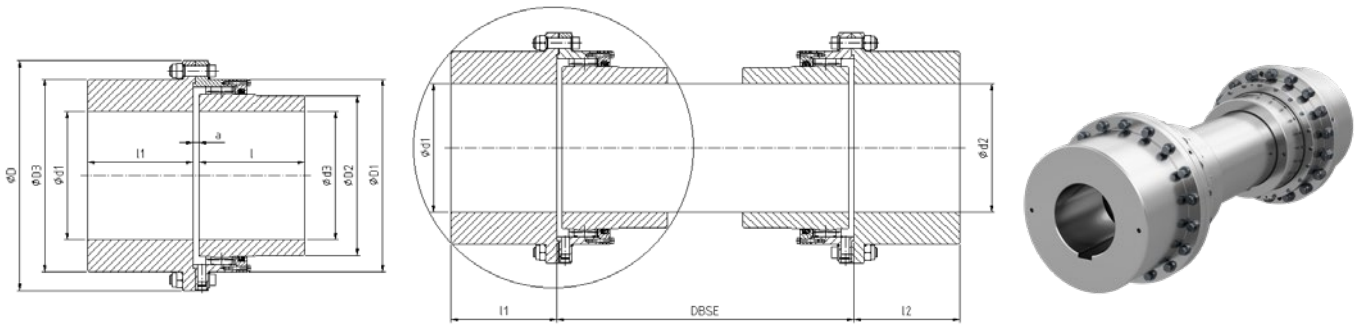
⑥ Weight is given for maximum bore and 1 m DBSE.

⑦ Maximum speed for balanced couplings. For higher speeds contact Regal Rexnord Jaure product engineering.

Contact Regal Rexnord Jaure Product Engineering at:

jaure.ptsolutions@regalrexnord.com

MTGRD-HD



SIZE	① TN NOMINAL	① TP MAX.	⑦ n MAX	D	D1	D2	D3	②③ d3 (MIN.-MAX.)	②③ d1-d2 (MIN.-MAX.)	l1-l2-l	a	④ WEIGHT MAX	WEIGHT PER 100 SPACER	⑤ WEIGHT MIN	④ MOMENT OF INERTIA J	MOMENT OF INERTIA PER 100 SPACER J	⑥ GREASE QTY.	GREASE QTY. HALF
MTGRD-HD	kN·m	kN·m	rpm	mm	mm	mm	mm	mm	mm	mm	mm	kg	kg	kg	kg·m²	kg·m²	kg	kg
300	400	800	For max. allowable speed contact Regal Rexnord™ Jaure™	540	453	380	453	155 - 300	170 - 340	250	13	2.246	50	1.854	44,18	0,36	1,8	0,9
330	475	950		580	491	410	491	165 - 330	185 - 370	265	13	2.727	61	2.249	63,39	0,51	2,0	1,0
375	650	1.300		655	542	458	542	175 - 375	205 - 405	300	13	3.628	76	2.920	108,12	0,83	2,5	1,25
405	840	1.680		700	587	506	587	195 - 405	220 - 440	320	13	4.347	89	3.506	152,92	1,12	2,6	1,3
440	1.125	2.250		760	649	555	649	215 - 440	245 - 485	350	15	5.397	106	4.343	233,15	1,54	3,5	1,75
475	1.330	2.660		805	693	595	693	235 - 475	260 - 520	365	15	6.309	139	5.333	313,05	2,08	4,0	2,0
510	1.600	3.200		860	737	635	737	255 - 510	275 - 550	400	18	7.483	160	6.313	432,11	2,74	4,5	2,25
560	1.980	3.960		930	798	691	798	275 - 560	300 - 600	415	20,5	9.022	193	7.569	617,23	3,95	5,5	2,75
590	2.500	5.000		985	854	736	854	290 - 590	325 - 650	430	20,5	10.371	215	8.579	811,72	4,85	7,5	3,75
630	2.970	5.940		1.070	929	808	929	305 - 630	350 - 695	460	20,5	12.677	245	10.446	1.192,96	6,27	9,0	4,5
700	4.290	8.580		1.175	1.010	878	1.010	345 - 700	380 - 755	510	23	16.017	302	13.159	1.843,04	9,50	11,5	5,75
800	6.270	12.540		1.340	1.164	1.020	1.164	395 - 800	435 - 870	560	23	22.330	395	18.154	3.467,75	16,11	13,5	6,75
870	7.360	14.720		1.420	1.240	1.078	1.240	425 - 870	465 - 930	580	25,5	25.923	467	20.997	4.584,55	22,46	18,0	9,0
950	8.500	17.000		1.490	1.311	1.142	1.311	450 - 950	490 - 980	600	25,5	29.917	556	24.278	5.942,53	31,25	20,0	10,0
1.050	11.963	23.925		1.645	1.448	1.268	1.448	505 - 1050	545 - 1085	660	27,5	38.447	680	30.922	9.519,72	47,40	24,0	12,0
1.200	18.500	37.000		1.830	1.620	1.428	1.620	555 - 1200	610 - 1215	760	27,5	52.598	888	41.623	16.639,69	80,64	33,0	16,5

Distance to be specified by the customer. DBSE is distance between shaft ends, not between flanges.
Coupling is supplied with puller holes. Set screws included upon request. Adapted hub lengths available upon request.

① The torque of the coupling does not include the connection transmission capacity.

② Minimum dimensions refer to already machined bore. For A00 rough bore dimensions contact Regal Rexnord Jaure product engineering.

③ Max. allowable bore for couplings with DIN 6885/1 keys. For other types of keys or connections please contact Regal Rexnord Jaure product engineering.

④ Weight and moment of inertia are given for minimum bore and 2.5m DBSE for full MTGRD coupling.

⑤ Weight is given for maximum bore and 2.5 m DBSE for full MTGRD coupling.

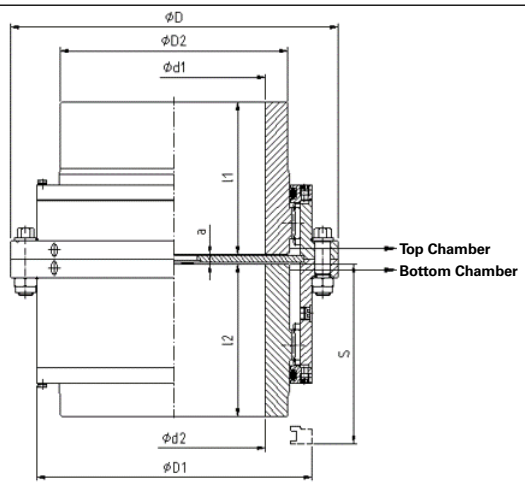
⑥ The amount of grease indicated in the catalogue is for guidance only.

⑦ n MAX speed for balanced couplings. For higher speeds contact Regal Rexnord Jaure product engineering.

Contact Regal Rexnord Jaure Product Engineering at:

jaure.ptsolutions@regalrexnord.com

MTGRV-HD



SIZE	① TN NOMINAL	① TP MAX.	⑧ n MAX BALANCED	⑨ n MAX NOT BALANCED	D	D1	D2	②③ d1-d2 (MIN.-MAX.)	l1-l2	a	④ S	⑤ WEIGHT MAX	⑥ WEIGHT MIN	⑤ MOMENT OF INERTIA J	⑦ GREASE Q.TY. TOP CHAMBER	⑦ GREASE Q.TY. BOTTOM CHAMBER
MTGRV-HD	kN·m	kN·m	rpm	rpm	mm	mm	mm	mm	mm	mm	mm	kg	kg	kg·m²	kg	kg
300	400	800	1.800	720	540	453	380	155 - 300	250	16	300	508	302	14	0,9	2,5
330	475	950	1.600	640	580	491	410	165 - 330	265	16	315	627	357	21	1,0	3,1
375	650	1.300	1.500	600	655	542	458	175 - 375	300	16	350	891	480	35	1,3	3,8
405	840	1.680	1.400	560	700	587	506	195 - 405	320	16	365	1.110	608	52	1,3	4,7
440	1.125	2.250	1.300	520	760	649	555	215 - 440	350	20	405	1.453	811	82	1,8	6,5
475	1.330	2.660	1.200	480	805	693	595	235 - 475	365	20	420	1.719	945	110	2,0	6,9
510	1.600	3.200	1.100	440	860	737	635	255 - 510	400	20	450	2.150	1.180	158	2,3	8,4
560	1.980	3.960	1.050	420	930	798	691	275 - 560	415	25	495	2.629	1.403	226	2,8	10,4
590	2.500	5.000	950	380	985	854	736	290 - 590	430	25	520	3.099	1.690	301	3,8	13,2
630	2.970	5.940	900	360	1.070	929	808	305 - 630	460	25	540	3.993	2.260	457	4,5	15,6
700	4.290	8.580	800	320	1.175	1.010	878	345 - 700	510	30	620	5.203	2.860	717	5,8	19,8
800	6.270	12.540	700	280	1.340	1.164	1.020	395 - 800	560	30	670	7.637	4.283	1.394	6,8	25,5
870	7.360	14.720	680	272	1.420	1.240	1.078	425 - 870	580	35	700	8.841	4.705	1.821	9,0	34,8
950	8.500	17.000	660	264	1.490	1.311	1.142	450 - 950	600	35	725	10.213	5.021	2.345	10,0	38,4
1.050	11.963	23.925	590	236	1.645	1.448	1.268	505 - 1050	660	35	790	13.753	6.837	3.877	12,0	49,5
1.200	18.500	37.000	500	200	1.830	1.620	1.428	555 - 1200	760	35	940	19.896	9.262	6.965	16,5	61,6

Coupling is supplied with puller holes. Set screws included upon request. Adapted hub lengths available upon request.

① The torque of the coupling does not include the connection transmission capacity.

② Minimum dimensions refer to already machined bore. For A00 rough bore dimensions contact Regal Rexnord™ Jaure™ product engineering.

③ Max. allowable bore for couplings with DIN 6885/1 keys. For other types of keys or connections please contact Regal Rexnord Jaure product engineering.

④ Clearance to align coupling hubs and replacement of sealing rings.

⑤ Weight and moment of inertia are given for minimum bore.

⑥ Weight is given for maximum bore.

⑦ The amount of grease indicated in the catalogue is for guidance only.

⑧ n MAX speed for balanced couplings. For higher speeds contact Regal Rexnord Jaure product engineering.

⑨ n MAX speed for not balanced couplings.

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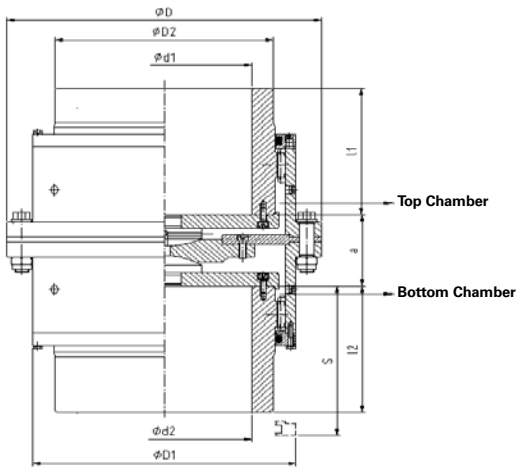
MTGRVT-HD



SIZE	① TN NOMINAL	① TP MAX.	⑧ n MAX BALANCED	⑨ n MAX NOT BALANCED	D	D1	D2	②③ d1-d2 (MIN.-MAX.)	l1-l2	a	④ S	⑤ WEIGHT MAX	⑥ WEIGHT MIN	⑤ MOMENT OF INERTIA J	⑦ GREASE QTY. TOP CHAMBER	⑦ GREASE QTY. BOTTOM CHAMBER
MTGRVT-HD	kN·m	kN·m	rpm	rpm	mm	mm	mm	mm	mm	mm	mm	kg	kg	kg·m²	kg	kg
300	400	800	1.800	720	540	453	380	155 - 300	250	143	300	505	397	36	2,5	5,9
330	475	950	1.600	640	580	491	410	165 - 330	265	149	315	624	482	47	3,1	7,8
375	650	1.300	1.500	600	655	542	458	175 - 375	300	162	350	875	659	72	3,8	10,9
405	840	1.680	1.400	560	700	587	506	195 - 405	320	177	365	1.095	832	101	4,7	13,2
440	1.125	2.250	1.300	520	760	649	555	215 - 440	350	191	405	1.434	1.097	147	6,5	18,7
475	1.330	2.660	1.200	480	805	693	595	235 - 475	365	192	420	1.691	1.286	187	6,9	21,8
510	1.600	3.200	1.100	440	860	737	635	255 - 510	400	224	450	2.116	1.608	255	8,4	26,2
560	1.980	3.960	1.050	420	930	798	691	275 - 560	415	230	495	2.564	1.921	344	10,4	33,4

Coupling is supplied with puller holes. Set screws included upon request. Adapted hub lengths available upon request. Downward thrust capacity of lower supporting button for sizes 300 and large is 400 kN. For higher values please contact Regal Rexnord™ Jaure™ product engineering.

① The torque of the coupling does not include the connection transmission capacity.

② Minimum dimensions refer to already machined bore. For A00 rough bore dimensions contact Regal Rexnord Jaure product engineering.

③ Max. allowable bore for couplings with DIN 6885/1 keys. For other types of keys or connections please contact Regal Rexnord Jaure product engineering.

④ Clearance to align coupling hubs and replacement of sealing rings.

⑤ Weight and moment of inertia are given for minimum bore.

⑥ Weight is given for maximum bore.

⑦ The amount of grease indicated in the catalogue is for guidance only.

⑧ n MAX speed for balanced couplings. For higher speeds contact Regal Rexnord Jaure product engineering.

⑨ n MAX speed for not balanced couplings.

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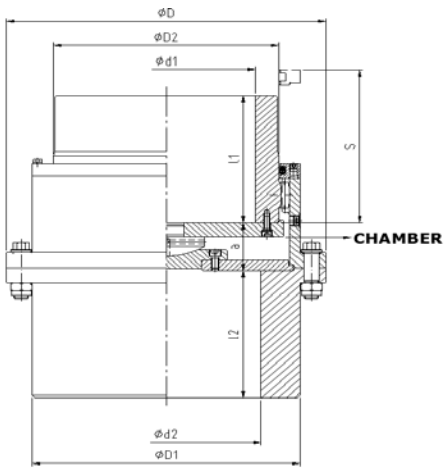
MTGRDVT-HD



SIZE	① TN NOMINAL	① TP MAX.	⑧ n MAX BALANCED	⑨ n MAX NOT BALANCED	D	D1	D2	②③ d1 (MIN.-MAX.)	②③ d2 (MIN-MAX)	l1-l2	a	④ S	⑤ WEIGHT MAX	⑥ WEIGHT MIN	⑤ MOMENT OF INERTIA J	⑦ GREASE QTY. TOP CHAMBER
MTGRDVT-HD	kN·m	kN·m	rpm	rpm	mm	mm	mm	mm	mm	mm	mm	mm	kg	kg	kg·m²	kg
300	400	800	1.800	720	540	453	380	155 - 300	170 - 340	250	93	300	481	378	34	5,9
330	475	950	1.600	640	580	491	410	165 - 330	185 - 370	265	99	315	595	460	45	7,8
375	650	1.300	1.500	600	655	542	458	175 - 375	205 - 405	300	112	350	833	628	69	10,9
405	840	1.680	1.400	560	700	587	506	195 - 405	220 - 440	320	122	365	1.043	792	96	13,2
440	1.125	2.250	1.300	520	760	649	555	215 - 440	245 - 485	350	136	405	1.365	1.045	140	18,7
475	1.330	2.660	1.200	480	805	693	595	235 - 475	260 - 520	365	137	420	1.611	1.224	178	21,8
510	1.600	3.200	1.100	440	860	737	635	255 - 510	275 - 550	400	155	450	2.015	1.531	243	26,2
560	1.980	3.960	1.050	420	930	798	691	275 - 560	300 - 600	415	161.5	495	2.442	1.830	328	33,4
590	2.500	5.000	950	380	985	854	736	290 - 590	325 - 650	430	163.5	520	2.834	2.131	416	39,8
630	2.970	5.940	900	360	1.070	929	808	305 - 630	350 - 695	460	175.5	540	3.678	2.813	608	51,4
700	4.290	8.580	800	320	1.175	1.010	878	345 - 700	380 - 755	510	188	620	4.797	3.627	913	63,3
800	6.270	12.540	700	280	1.340	1.164	1.020	395 - 800	435 - 870	560	208	670	7.070	5.396	1.676	85,5
870	7.360	14.720	680	272	1.420	1.240	1.078	425 - 870	465 - 930	580	213.5	700	8.192	6.129	2.155	104,6
950	8.500	17.000	660	264	1.490	1.311	1.142	450 - 950	490 - 980	600	219.5	725	9.181	6.591	2.654	122,8
1.050	11.962	23.925	590	236	1.645	1.448	1.268	505 - 1050	545 - 1085	660	243.5	790	12.456	9.010	4.318	156,8
1.200	18.500	37.000	500	200	1.830	1.620	1.428	555 - 1200	610 - 1215	760	280.5	940	17.718	12.422	7.436	218,9

Coupling is supplied with puller holes. Set screws included upon request. Adapted hub lengths available upon request.
Downward thrust capacity of lower supporting button for sizes 300 and larger is 400 kN. For higher values contact Regal Rexnord™ Jaure™ product engineering.

① The torque of the coupling does not include the connection transmission capacity.

② Minimum dimensions refer to already machined bore. For A00 rough bore dimensions contact Regal Rexnord Jaure product engineering.

③ Max. allowable bore for couplings with DIN 6885/1 keys. For other types of keys or connections please contact Regal Rexnord Jaure product engineering.

④ Clearance to align coupling hubs and replacement of sealing rings.

⑤ Weight and moment of inertia are given for minimum bore.

⑥ Weight is given for maximum bore.

⑦ The amount of grease indicated in the catalogue is for guidance only.

⑧ n MAX speed for balanced couplings. For higher speeds contact Regal Rexnord Jaure product engineering.

⑨ n MAX speed for not balanced couplings.

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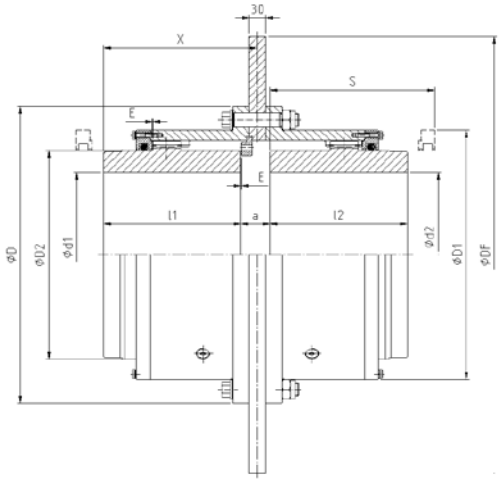
MTGRFF-HD



SIZE	① TN NOMINAL	① TP MAX.	⑧⑨ n MAX	D	D1	D2	⑩ DF	X	E	②③ d1-d2 (MIN.-MAX.)	l1-l2	a	④ S	⑤ WEIGHT MAX	⑥ WEIGHT MIN	⑤ MOMENT OF INERTIA J	⑦ GREASE QTY.
MTGRFF-HD	kN·m	kN·m	rpm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg	kg	kg·m²	kg
300	400	800	1.300	540	453	380	795	280	1	155 - 300	250	53	300	600	393	23,41	5,6
330	475	950	1.300	580	491	410	795	295	1	165 - 330	265	53	320	718	447	29,62	6,9
375	650	1.300	1.050	655	542	458	995	330	1	175 - 375	300	53	340	1.044	632	58,62	8,4
405	840	1.680	1.050	700	587	506	995	350	1	195 - 405	320	53	370	1.255	753	74,63	10,3
440	1.125	2.250	950	760	649	555	1.100	383	2	215 - 440	350	58	400	1.636	994	115,98	14,1
475	1.330	2.660	950	805	693	595	1.100	398	2	235 - 475	365	58	420	1.897	1.123	144,67	15,1
510	1.600	3.200	850	860	737	635	1.200	433	2	255 - 510	400	58	450	2.354	1.384	206,04	18,2
560	1.980	3.960	850	930	798	691	1.200	453	2	275 - 560	415	65,5	490	2.368	1.593	260,95	22,3

Coupling is supplied with puller holes. Set screws included upon request. Adapted hub lengths available upon request.

① When calculating the nominal torque of the coupling neither the connection nor the braking system are considered. For more details, please, contact Regal Rexnord™ Jaure™ product engineering.

② Minimum dimensions refer to already machined bore. For A00 rough bore dimensions contact Regal Rexnord Jaure product engineering.

③ Max. allowable bore for couplings with DIN 6885/1 keys. For other types of keys or connections please contact Regal Rexnord Jaure product engineering.

④ Clearance to align coupling hubs and replacement of sealing rings.

⑤ Weight and moment of inertia are given for minimum bore.

⑥ Weight is given for maximum bore.

⑦ The amount of grease indicated in the catalogue is for guidance only. For exact amount please refer to coupling instructions.

⑧ Maximum speed calculated according to standard brake material (S 355). For higher speed, please contact Regal Rexnord Jaure product engineering.

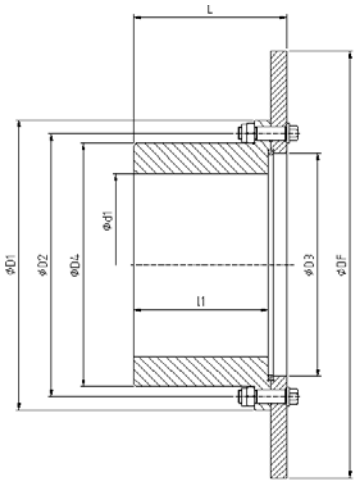
⑨ n MAX speed for balanced couplings. For higher speeds contact Regal Rexnord Jaure product engineering.

⑩ Brake disc dimensions can be adjusted per customer requirements.

Contact Regal Rexnord Jaure Product Engineering at:

jaure.ptsolutions@regalrexnord.com

MTGRDFF-HD



SIZE	① TN NOMINAL	① TP MAX.	⑥⑦ n MAX BALANCED	⑧ DF	D1	D2	D3	D4	②③ d1 (MIN.-MAX.)	l1	L	④ WEIGHT MAX	⑤ WEIGHT MIN	④ MOMENT OF INERTIA J
MTGRDFF-HD	kN·m	kN·m	rpm	mm	mm	mm	mm	mm	mm	mm	mm	kg	kg	kg·m²
300	400	800	1.300	795	540	490	415	453	170 - 340	250	285	383	251	12,00
330	475	950	1.300	795	580	528	445	491	185 - 370	265	300	455	288	15,11
375	650	1.300	1.050	995	655	589	495	542	205 - 405	300	340	665	441	30,43
405	840	1.680	1.050	995	700	634	545	587	220 - 440	320	360	905	607	47,45
440	1.125	2.250	950	1.100	760	696	600	649	245 - 485	350	390	1.008	632	57,61
475	1.330	2.660	950	1.100	805	740	640	693	260 - 520	365	405	1.152	699	69,39
510	1.600	3.200	850	1.200	860	788	680	737	275 - 550	400	448	1.676	1.093	127,78
560	1.980	3.960	850	1.200	930	854	740	798	300 - 600	415	463	2.004	1.281	167,03

Coupling is supplied with puller holes. Set screws included upon request. Adapted hub lengths available upon request.

① When calculating the nominal torque of the coupling neither the connection nor the braking system are considered. For more details, please, contact Regal Rexnord™ Jaure™ product engineering.

② Minimum dimensions refer to already machined bore. For A00 rough bore dimensions contact Regal Rexnord Jaure product engineering.

③ Max. allowable bore for couplings with DIN 6885/1 keys. For other types of keys or connections please contact Regal Rexnord Jaure product engineering.

④ Weight and moment of inertia are given for minimum bore.

⑤ Weight is given for maximum bore.

⑥ Maximum speed calculated according to standard brake material (S 355). For higher speed, please contact Regal Rexnord Jaure product engineering.

⑦ n MAX speed for balanced couplings. For higher speeds contact Regal Rexnord Jaure product engineering.

⑧ Brake disc dimensions can be adjusted per customer requirements.

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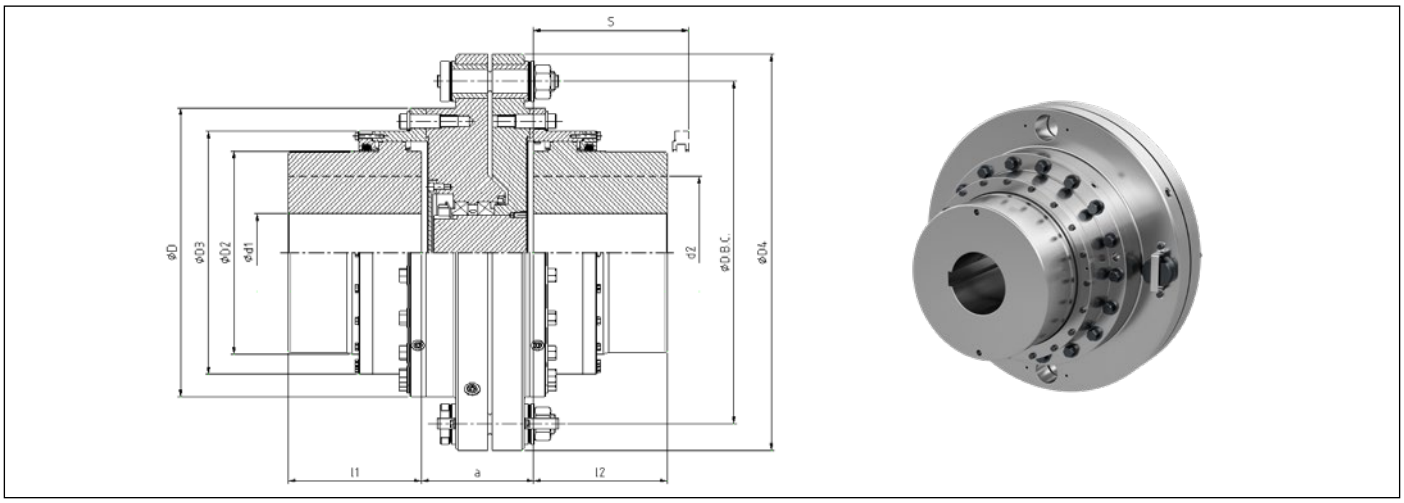
MTGRBR-HD



SIZE	① TN NOMINAL	① TP MAX.	⑧ n MAX BALANCED	⑨ n MAX NOT BALANCED	D	D1	D2	D3	D.B.C.	②③ d1-d2 (MIN.-MAX.)	l1-l2	a	④ S	⑤ WEIGHT MAX	⑥ WEIGHT MIN	⑤ MOMENT OF INERTIA J	⑦ GREASE QTY.
MTGRBR-HD	kN·m	kN·m	rpm	rpm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg	kg	kg·m²	kg
300	400	800	1.800	720	540	453	380	740	640	155 - 300	250	210	300	1.000	798	47	1,8
330	475	950	1.600	640	580	491	410	780	680	165 - 330	265	210	315	1.171	906	61	2,0
375	650	1.300	1.500	600	655	542	458	850	750	175 - 375	300	210	350	1.532	1.128	92	2,5
405	840	1.680	1.400	560	700	587	506	950	820	195 - 405	320	261	365	2.158	1.664	168	2,6
440	1.125	2.250	1.300	520	760	649	555	1.010	880	215 - 440	350	265	405	2.642	2.014	231	3,5
475	1.330	2.660	1.200	480	805	693	595	1.060	930	235 - 475	365	265	420	3.025	2.270	290	4,0
510	1.600	3.200	1.100	440	860	737	635	1.140	1.000	255 - 510	400	310	450	3.920	2.975	442	4,5
560	1.980	3.960	1.050	420	930	798	691	1.210	1.070	275 - 560	415	315	495	4.642	3.432	588	5,5

Coupling is supplied with puller holes. Set screws included upon request. Adapted hub lengths available upon request.

① The torque of the coupling does not include the connection transmission capacity.

② Minimum dimensions refer to already machined bore. For A00 rough bore dimensions contact Regal Rexnord™ Jaure™ product engineering.

③ Max. allowable bore for couplings with DIN 6885/1 keys. For other types of keys or connections please contact Regal Rexnord Jaure product engineering.

④ Clearance to align coupling hubs and replacement of sealing rings.

⑤ Weight and moment of inertia are given for minimum bore.

⑥ Weight is given for maximum bore.

⑦ The amount of grease indicated in the catalogue is for guidance only. For exact amount please refer to coupling instructions.

⑧ n MAX speed for balanced couplings. For higher speeds contact Regal Rexnord Jaure product engineering.

⑨ n MAX speed for not balanced couplings.

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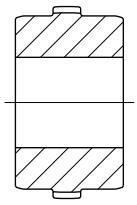
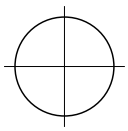
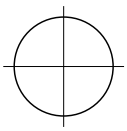
SHAFT CONNECTION TYPES

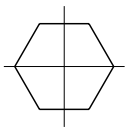




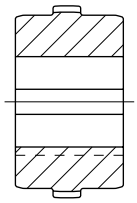
A00
PILOT

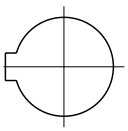


A01
CYLINDRICAL

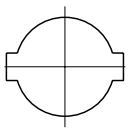


A02
HEXAGONAL

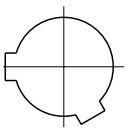




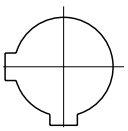
B01
ONE KEYWAY



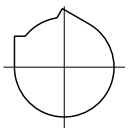
B02
TWO KEYWAYS
AT 180°



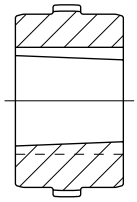
B03
TWO KEYWAYS
AT 120°

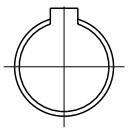


B04
TWO KEYWAYS
AT 90°

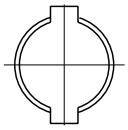


B05
TWO TANGENCIAL
KEYWAYS AT 120°

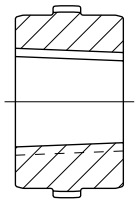


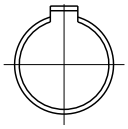


C01
CONICAL BORE
ONE STRAIGTH
KEYWAY

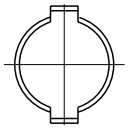


C02
CONICAL BORE
TWO STRAIGTH
KEYWAYS

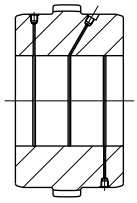




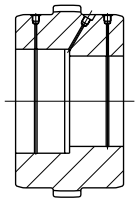
D01
CONICAL BORE
ONE TAPERED
KEYWAY



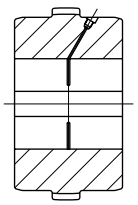
D02
CONICAL BORE
TWO TAPERED
KEYWAYS



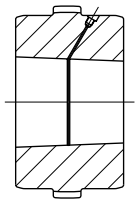
E01
SHRINK FIT



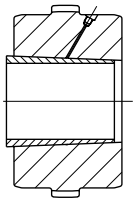
E02
SHRINK FIT
WITH TWO
DIAMETERS



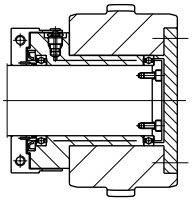
E03
SHRINK FIT
AND KEYWAY



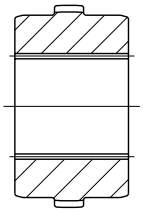
F01
TAPERED
SHRINK FIT



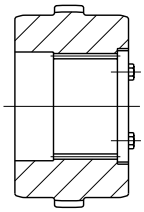
F02
WITH
CONICAL
SLEEVE



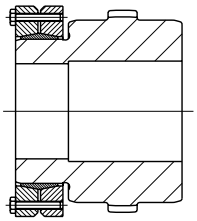
F03
WITH SAFESET®*
ELEMENT



G01
ACCORDING
DIN 5480



G02
ACCORDING
DIN 5480
WITH CENTERING
DIAMETER



G03
WITH
CLAMPING
RING

*SAFESET is believed to be the trademark and/or trade name of Voith Turbo Safeset AB, and is not owned or controlled by Regal Rexnord Corporation or its affiliates.

RECOMMENDATIONS FOR SHAFT / BORE FITS

The following recommendations, according to ISO, are given for shaft/bores fits.

TYPE OF FIT	SHAFT TOLERANCES	BORE TOLERANCES
Interference fits with parallel keyway	h 6	S 7
	k 6	M 7
	m 6	K 7
	n 6	J 7
	p 6	H 7
Shrink fits* without parallel key	u 6	H 7
	v 6	
	x 6	

* The stresses on the hub must be checked.

For keyway a tolerance width ISO P9 is recommended.

NOTES

JAURE™

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