



thompson
COUPLINGS

TCAE

TCAE-ST SERIES



TCAE-S SERIES



TCAE-L SERIES



TCAE-V SERIES



TCAE-R SERIES



TCAE-E SERIES



TCAE-ET SERIES



LEADING COUPLING AND DRIVELINE SOLUTIONS-THE COUPLINGS YOU CAN FIT AND FORGET
(Balanced to AGMA 9000-D, Grade 9/ISO 1940-1 G6.3)

NO LASER ALIGNMENT

**WORKS IN HARSH
ENVIRONMENTS**

REDUCES VIBRATION

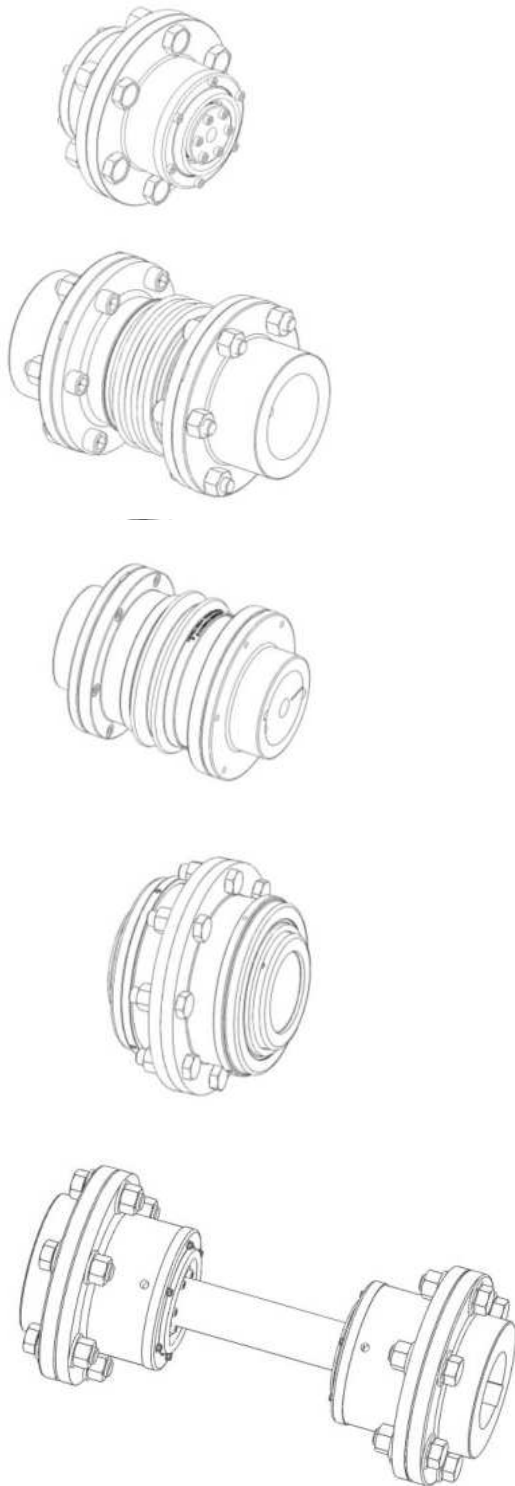
**NO OR LOW
MAINTENANCE**

**REDUCED OPERATING &
POWER COSTS**

**COMPONENTS SERIAL
NUMBERED**



Thompson Couplings



TCAE-S SERIES

A close-coupled design for applications where axial space is limited. In addition, an economical spacer design is available to extend the length of the coupling.

TCAE-V SERIES

A compact, heavy duty coupling with short axial dimensions capable of transmitting a high torque capacity. May be used in both horizontal and vertical applications.

TCAE-R SERIES

The regular range of couplings delivering high performance across high-speed ranges, at constant velocity. Offers a long service life, high reliability and a high transmission efficiency.

TCAE-ST SERIES

A close-coupled design for applications where axial space is limited. In addition, this Trade Marked Designed Coupling can be fitted with a taper lock.

TCAE-E and ET and L SERIES

The E-series the ET series and the L Series can make use of either a hollow or solid shaft of varying lengths designed to the customer's requirements. Used where the distance between shaft ends is too large for a spacer type coupling. The E series uses a key the ET is a Trade Marked design using a taper lock. The L Series uses Taper Lock flanges

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Coupling Selection Procedure

Quick Selection Method:

The following method allows a quick estimation of the coupling size. This method is based on standard industrial electric motor drives connected to devices such as centrifugal process pumps or similar.

Determine the electric motor rated power and speed (often listed on the motor nameplate)

a. Determine the type of TCAE coupling to be used:

- i. TCAE-S series & TCAE-E series
- ii. TCAE-V series
- iii. TCAE-R series
- iv. TCAE-L series
- v. TCAE-ST series
- vi. TCAE-ET series

The ST, E and ET are the same as the S in b below. L Series is the same as R series below.

b. Enter the following table with the motor power and speed and coupling series type to locate the coupling size with the closest power rating. eg. motor power of 160kW running at 1,500 rpm.

TCAE MODEL	Power [kW] at MSF 1.		
	1000 rpm	1500 rpm	3000 rpm
TCAE-S-1	43	64	128
TCAE-S-2	86	130	227
TCAE-S-3	151	227	453
TCAE-S-4	235	352	704
TCAE-S-5	386	580	1160
TCAE-S-6	400	600	880
TCAE-S-7	618	926	1360
TCAE-S-8	810	1216	1,784 (Max 2,200 RPM)
TCAE-S-9	1280	1920	2,560 (Max 2,000 RPM)
TCAE-S-10	1,900		2,850 (Max 1,500 RPM)
TCAE-S-11	2,710		3,800 (Max 1,400 RPM)
TCAE-S-12	3,730		4,473 (Max 1,200 RPM)
TCAE-S-13	4,985		4,985 (Max 1,000 RPM)
TCAE-S-14			7,015 (Max 800 RPM)

TCAE MODEL	Power [kW] at MSF 1.		
	1000 rpm	1500 rpm	3000 rpm
TCAE-V-00	18	28	55
TCAE-V-0	29	44	88
TCAE-V-1	43	64	128
TCAE-V-2	88	131	262
TCAE-V-3	148	222	444
TCAE-V-4	230	344	570
TCAE-V-5	380	570	1,135
TCAE-V-6	647	971	1,424
TCAE-V-7	853	1,280	1,877 (Max 2,200 RPM)
TCAE-V-8	1,766	2,650	3,886 (Max 2,200 RPM)
TCAE-V-9	2,414	3,621	4,828 (Max 2,000 RPM)
TCAE-V-10	3,347		5,021 (Max 1,500 RPM)
TCAE-V-11	4,049		5,669 (Max 1,400 RPM)
TCAE-V-12	6,954		8,345 (Max 1,200 RPM)
TCAE-V-13			11,537 (Max 1,000 RPM)
TCAE-V-14			14,028 (Max 800 RPM)

TCAE-R-1	40	60	120
TCAE-R-2	95	142	284
TCAE-R-3	160	240	389
TCAE-R-4	260	389	777
TCAE-R-5	386	579	1,158
TCAE-R-6	551	827	1,654 (Max 2,200 RPM)
TCAE-R-7	750	1,125	2,250 (Max 2,000 RPM)
TCAE-R-8	992		1,488 (Max 1,500 RPM)

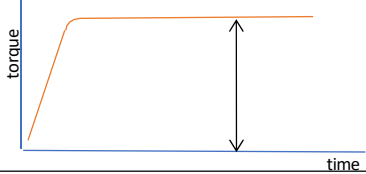
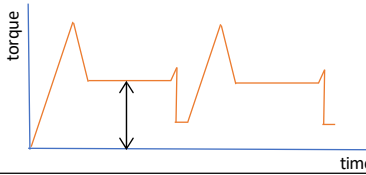
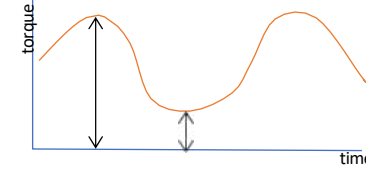
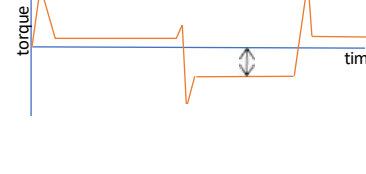
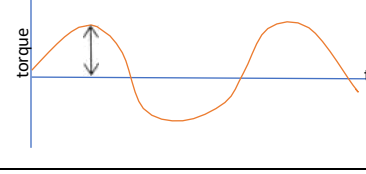
- c. The above coupling size estimation is based on a machine service factor of 1.25 to give a running life of 7,200 hours (typical running time of 8 hours per day, 25 days per month for 3 years)
- d. For other parameters refer to the following **detailed selection method**, such as:
 - i. diesel drives or turbines
 - ii. other machine service factors
 - iii. other running life requirements
 - iv. other operating angles

Detailed Selection Method

The following method enables the user to determine the most suitable TCAE coupling for their specific application using a more comprehensive and detailed approach.

- a. Determine the system power and operating speed for the drive. It is preferable to gather as much data as possible including:
 - i. Actual consumed power of the driven device (pump, roller, gearbox etc).
Note this is normally less than the actual rated power of the motor.
 - ii. Shaft sizes and distance between ends (DBSE).
 - iii. Operating hours or duty cycle required.
 - iv. Worse case angle and / or distance of misalignment possible.
 - v. Possible shock loading factors and/ or changes to the torque loading in operation.
 - vi. Possibility of emergency stop situations which significantly magnifies the load on the drivetrain and coupling.
- b. Many industrial systems driven by electric motors tend to be **constant** torque applications.
- c. Calculate the **nominal** drive torque as follows: $T \text{ (Nm)} = kW \times 9550 / \text{rpm}$
- d. However, systems that start/stop regularly or have oscillatory load patterns require an average or even an RMS value to be used to determine the nominal torque. Examples of these are shown below with their corresponding nominal values:

e.

Torque/Power fluctuation	Example	Nominal torque T_n
Constant		$T_n = \text{torque}$
Fluctuates in one direction with short peak times		$T_n = \text{average torque over cycle}$
Fluctuates evenly in one direction		$T_n = 1/3 * (T_{\min} + 2 * T_{\max})$
Fluctuates forward and reverse with short peak times		$T_n = \text{average torque over cycle of either forward or reverse cycle whichever is greater}$
Fluctuates evenly in both forward and reverse directions		$T_n = 2/3 * T_{\max}$

- f. Determine the machine duty service type, **K_1** . The factor K_1 is governed by both the Machine Type and the Driven type. It is recommended deciding both machine factor and driven factor and using the larger of both for the value of K_1 .

MACHINE FACTOR K_1 :

MACHINE USED	FACTOR K_1
Electric motor	1
Turbine	1
Gasoline engine 4 cyl or more	1.25
Gasoline engine 3 cyl or less	1.5
Diesel engine 4 cyl or more	2
Diesel engine 3 cyl or less	3

DRIVEN DEVICE FACTOR K_1 :

(SEE ALSO DETAILED TABLE FOR APPLICATIONS BELOW)

DRIVEN DUTY SERVICE TYPE	FACTOR K_1
SMOOTH	1
LIGHT DUTY	1.25
MODERATE DUTY	1.5
MEDIUM	1.75
HEAVY DUTY	2
VERY HEAVY DUTY	2.5
EXTREME SHOCK	3

MACHINE DUTY SERVICE TYPE						
SMOOTH	LIGHT DUTY	MODERATE DUTY	MEDIUM DUTY	HEAVY DUTY	VERY HEAVY DUTY	EXTREME SHOCK
Agitators Blowers-centrifugal Evaporators Fans - Centrifugal Pumps - Centrifugal Screens - Air washer Steering gear Stokers Tyre press opener Woodworking machinery	Belt conveyors Blowers-Vane compressor -centrifugal Fans -Induced draft Feeders Machine-tool drives Oil industry chillers Paper mill - agitators Paper mill - conveyors Screens - Travelling water Sewage disposal equipment Textile dyeing machines	Beaters Blowers- lobe Bucket conveyor Compressor - lobe Dredge - conveyor Fans - propeller Fans - forced draft Fans - cooling tower Line shaft conveyor Metal forming - slitters Metal forming- wire winder Metal rolling - coilers (cold) Metal rolling- wire drawing Melters Paper mill - converters Paper mill - reelers Paper mill - winders Printing presses Pumps - Gear/rotary/Vane Screens - Rotary stone/gravel Screw conveyor Shredders Textile machinery - dryers Timber - sorting table Utility winches	Concrete mixers Dredge - screen drives Dredge - stacker Dredge - cable reels Dredge - winches Elevator -bucket Hoist - bridge drive Hoist - skip Hoist - trolley drive Metal forming -wire winder Metal rolling - cooler beds Metal rolling - edger drive Metal rolling - reel drives Oil industry filter press Paper mill - beater/pulper Paper mill - dryers Paper mill - jordan pumps - reciproc - 3 cyl+ Timber - planer Timber - slab conveyor Timber - trimmer feed Tumbler - barrel Windlasses	Barge pullers Cranes - main hoist Cranes -reversing Elevator -freight Generator - welding Hammer mills Laundry washer Machine tool - bending rolls Machine tool - punch press Metal forming- draw bench drive Metal forming -extruder Metal rolling - coiler (hot) Metal rolling - door openers Metal rolling - reel drums Metal rolling -draw bench Mills - cement/kiln Mills - pebble Mills - tube Mills - tumbling Mills- dryers/coolers Mills- rolling Paper mills - barker mechanical Paper mills - log haul drives Paper mills - super calendars Pullers - barge haul Rubber plant - calendars Rubber plant - sheeter Rubber plant - tuber/straightener Timber - Barker (drum)	Ball mill drive Crushers -ore Crushers -stone Dredge - cutter head Feeder - reciprocating Machine tool - tappers Metal forming - Table conveyors Metal rolling - furnace pushers Metal rolling- ingot cars Metal rolling - kick outs Metal rolling - pusher rams Metal rolling - runout tables Metal rolling - saws Metal rolling - straighteners Metal rolling - transfer tables Metal rolling - tube conveyor rolls Metal rolling- unsramblers Paper Mills - barker drum gear Paper Mills - chipper drive Pumps - reciproc - 2cyl Rubber plant - rubber mill Rubber plant - mixers Rubber plant-tye builder m/c Screens - vibrating	Conveyors - reciprocating Conveyors - shaking/live roll Metal rolling - feed rolls Metal rolling - reversing rolls Metal rolling - hot mills Metal rolling - Manipulators Metal rolling - merchant mill Metal rolling - piercers Metal rolling - reelers Metal rolling - rod & bar Rolls Metal rolling - roughing mill feed rolls Metal rolling - screwdown drive rolls Metal rolling - skelp mills Metal rolling - slitter rolls Metal rolling - stabbing mills Metal rolling - soaking pit drive Metal rolling - thrust block drive Metal rolling - Traction drive

g. Define the operating time factor based on the duty cycle, K_2

Operating hours / day	K_2	Operating hours / day	K_2	Operating hours /day	K_2
2	0.63	10	1.08	18	1.31
4	0.80	12	1.15	20	1.35
6	0.91	14	1.20	22	1.40
8	1	16	1.26	24	1.44



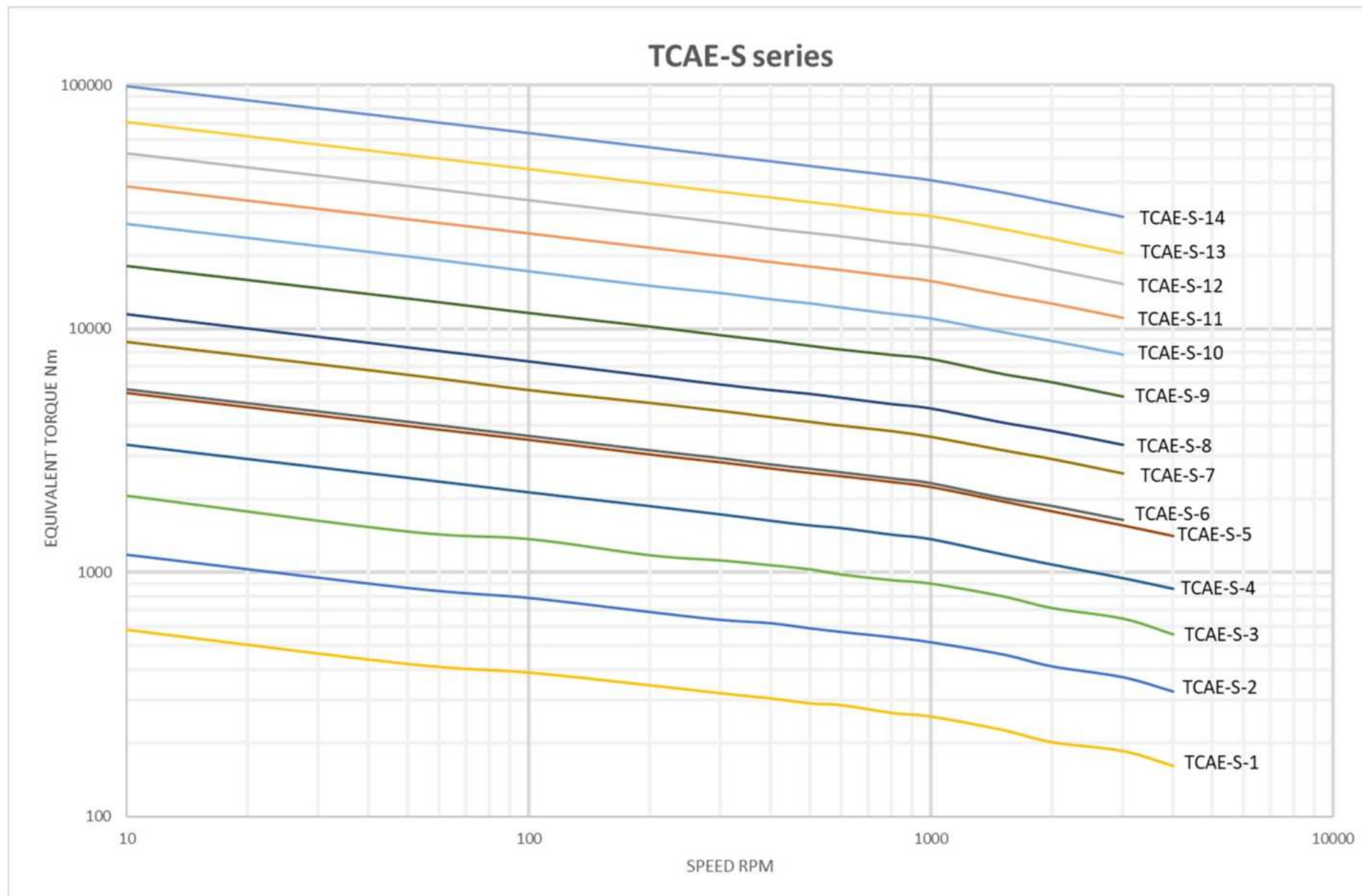
- h. Define the angle factor based on the coupling operation angle, **K₃**

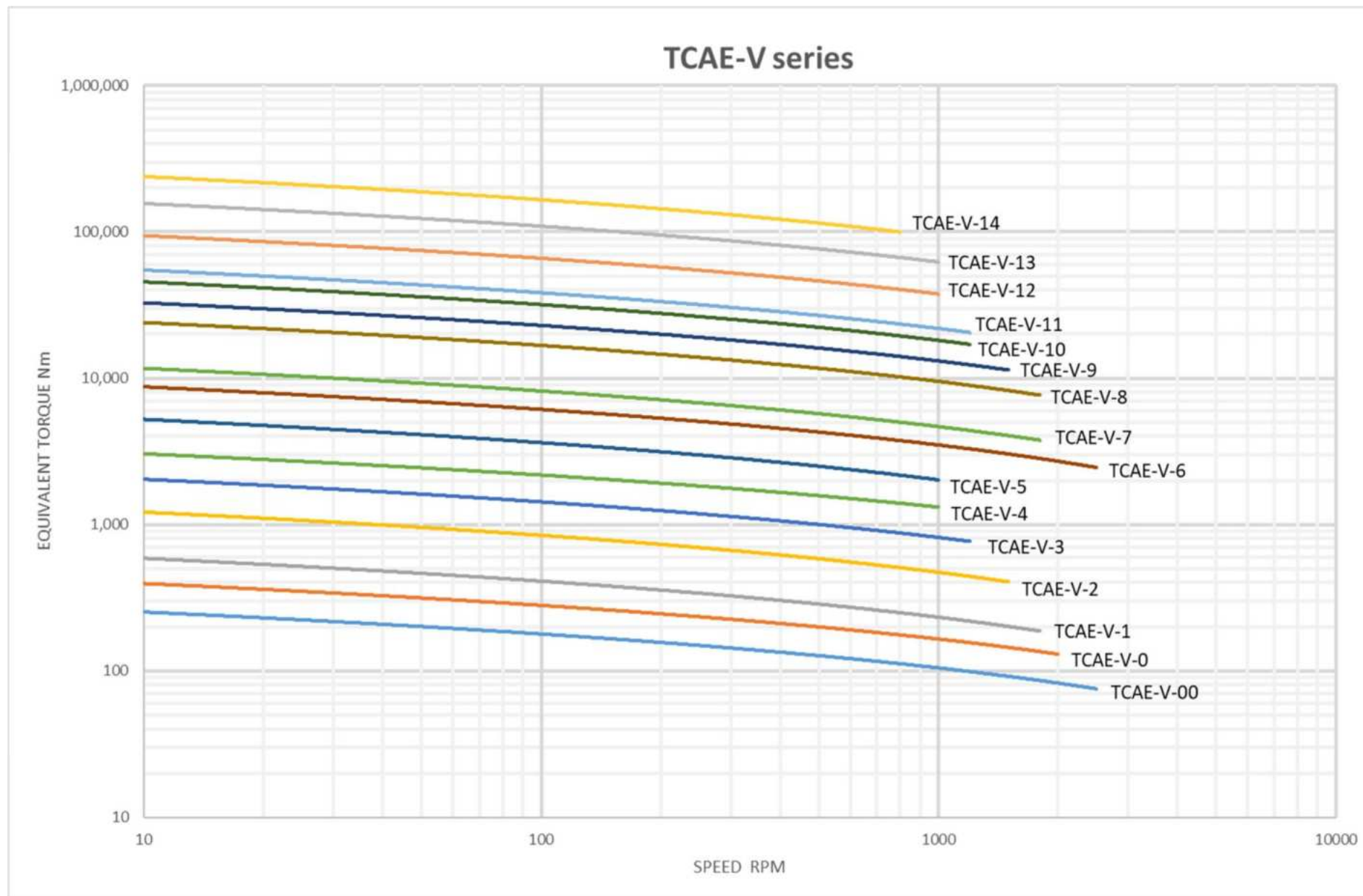
Operating angle degs	K₃
0	1
1	0.98
2	0.96
3	0.94
4	0.92
5	0.90

- i. Determine the Equivalent Torque, **T_e** based on the following formula:

$$T_e = (K_1 \cdot K_2) \cdot T_n / K_3$$

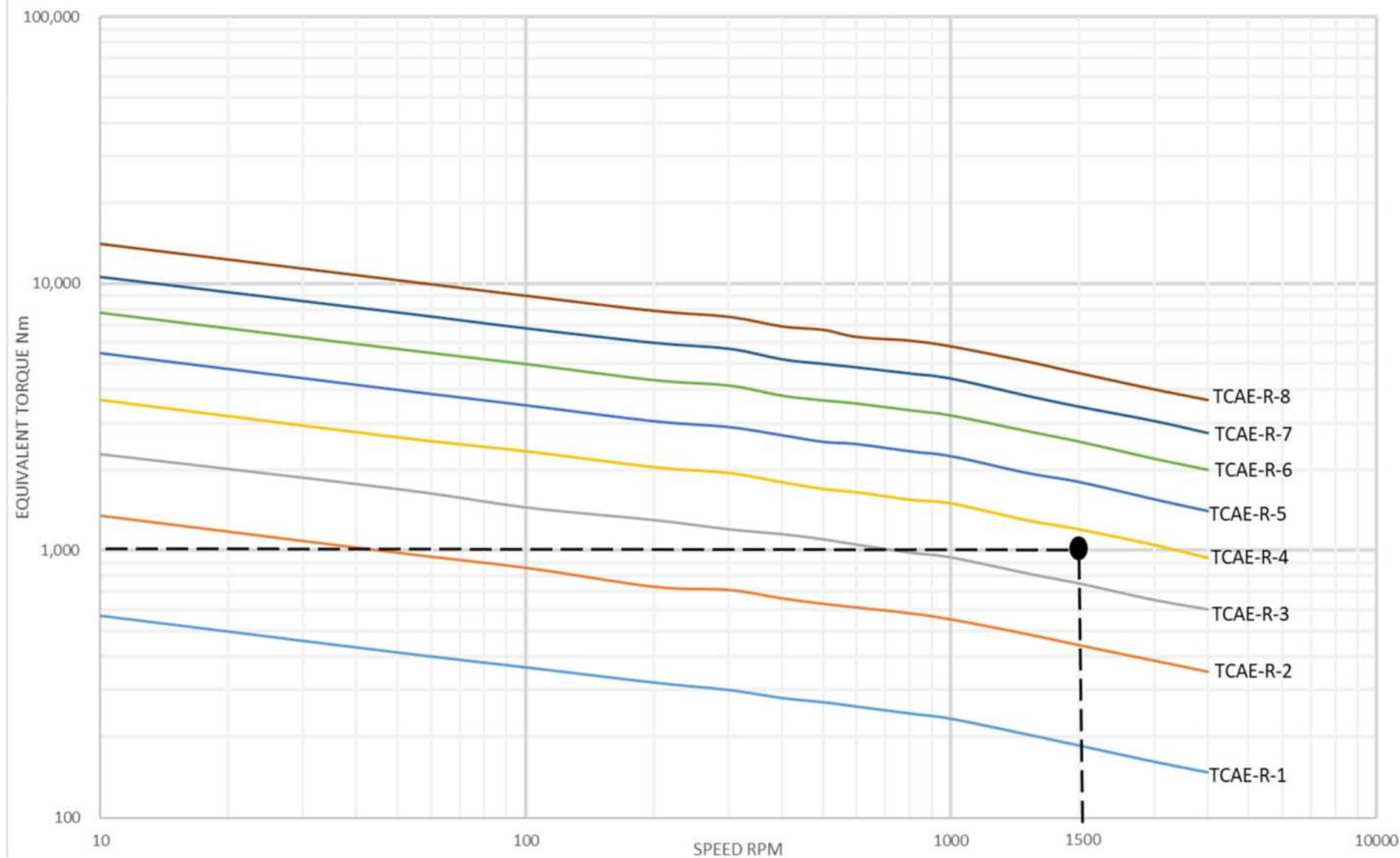
- j. Determine the series of coupling required for the application (R, L, V, S) usually based on the distance between shaft ends (DBSE). Using the appropriate chart below for the required coupling series, position the intersection of the Equivalent torque **T_e** and the coupling speed, **RPM**
- k. The selected coupling is found at the line above this intersection point.
- l. Example: The Equivalent Torque **T_e** has been calculated at 1,000Nm and runs at 1,500 RPM and due to the DBSE required an **TCAE- R** series is selected. Following the graph for R series a size **TCAE-R-4** coupling is chosen to fulfil the requirements (Page 8).
- m. These graphs for each TCAE series represent the coupling service life of 7,200 hours (equal to 8 hours per day, 25 days per month for 3 years)
- n. PLEASE NOTE: The **TCAE-R** Series and the **TCAE-L** Series are identical.
- o. For applications requiring more intricate operations and different service lives it is recommended to use the **THOMPSON COUPLINGS SELECTION SPREADSHEET® Selector Program**.

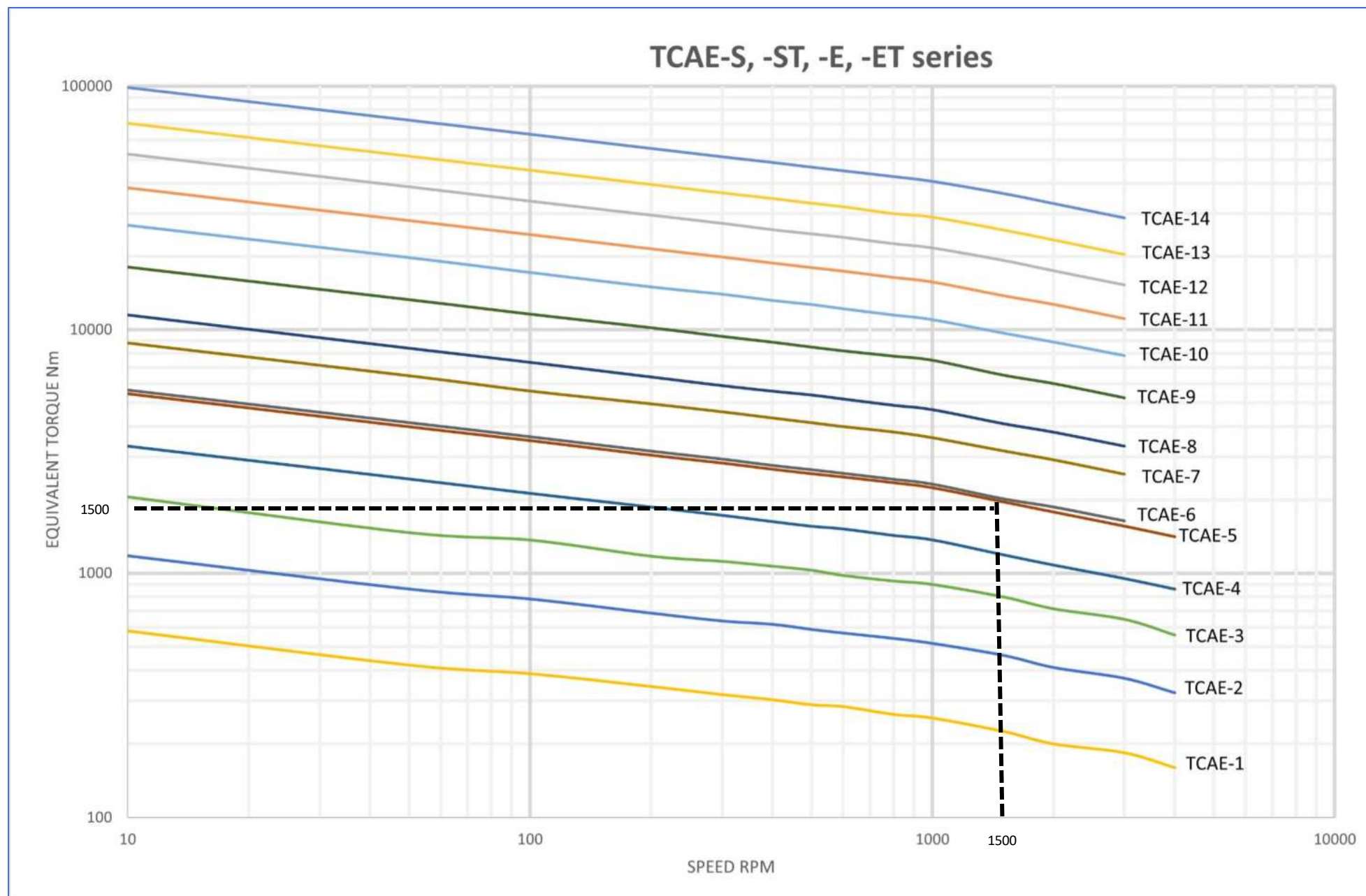






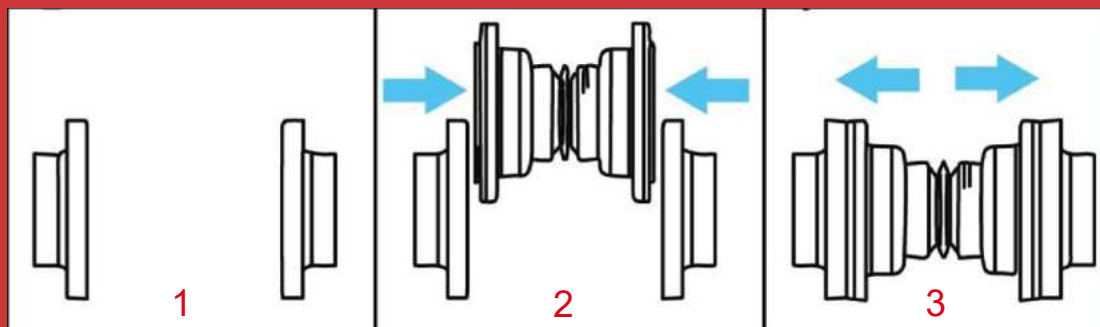
R SERIES





Easy Installation

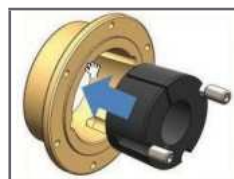
Quick Release Flanges allow for easy installation and replacement of the TCAE. Simply fix the flanges on the pump and motor shafts (1), compress the TCAE to fit in between (2) and then expand and attach the TCAE (3).



Installation Procedure



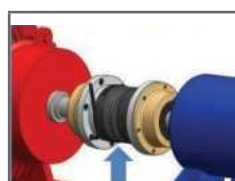
1. If necessary, move the drive / driven device to the correct "end-to-end" shaft distance, in order to fit the TCAE in between.



2. Slide the Taper Lock Bush inside the Quick Release Flange. Do not completely tighten the screws from the Taper Lock Bush against the flange. Repeat the operation for the other flange and bush.



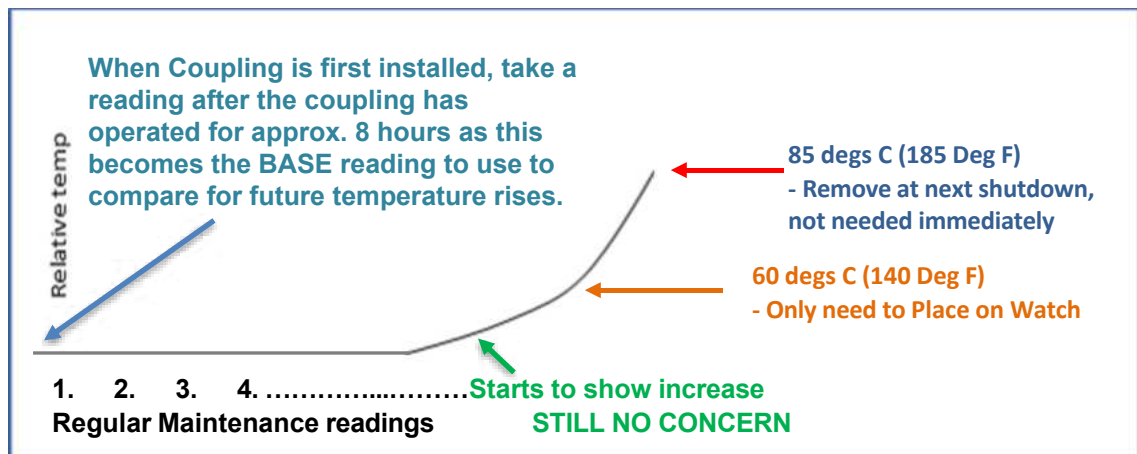
3. Slide both Quick Release Flanges onto both drive and driven device shafts with appropriate shaft keys. For best results, locate flange ends flush with the end of the shaft. Alternatively, at least 50% of the flange should be placed on the shaft. Tighten the Taper Lock Bush screws adequately.



4. If necessary, use a sling to insert the TCAE in a horizontal position. Compressing and expanding the TCAE as necessary, slide it between both flanges. Secure the TCAE to both flanges by tightening the bolts in a diametrically opposite sequence.

Inspection Procedure

1. Visual inspection procedure:
 - a. Check for smooth operation with Minimal vibration.
 - b. Inspect for build-up of contamination on all rotating parts.
 - c. Inspect for corrosion on all parts and replace as necessary.
2. Audio inspection procedure:
 - a. Assess for unusual vibration and corresponding noise levels.
 - b. Listen for unusual noises within the coupling.
3. It is recommended that a routine check be made of the coupling outer surface temperature using a non-contact thermometer (or similar) to detect any abnormal changes in temperature. The surface temperature is a function of conditions such as: ambient temperature, actual running power and speed, operating angle, duty cycle of the driven device and others. As such it is recommended that the coupling temperature be regularly recorded (usually as part of the plant condition monitoring routines). In normal operating environments (ambient up to 35 deg C) a threshold set point temperature of 60 deg C (140 deg F) should be the first warning signal to increase the frequency of subsequent temperature monitoring times. If the temperature is observed to increase significantly in subsequent inspection periods, or if it starts to exceed a temperature of 85 deg C (185 deg F) or more it should be **stopped** and **replaced (see below graph for reference)**.



PLEASE NOTE: The TCAE Couplings do not break but only fail. They will continue to work even when the temperature reaches 85 degs C. The only thing that happens is that the unique misalignment properties are drastically reduced.

HOWEVER, no damage will be inflicted on the machines.

Accreditation

Certification



ISO 9001:2015



ATEX



ABS

Conformance

Our range of couplings comply with the following standards

- API 671
- Conformité Européene (European Conformity)
- ANSI/AGMA 9000-D11 – Grade 9 or ISO 1940-1 G6.3

Warranty

Thompson Couplings Limited (“**TCL**”) warrants, to the original purchaser only, that the delivered product which is the subject of this sale (a) will conform to drawings and specifications mutually established in writing as applicable to the contract, and (b) be free from defects in material or fabrication. The duration of this warranty is one year from date of delivery. If the buyer discovers within this period a failure of the product to conform to drawings or specifications, or a defect in material or fabrication, it must promptly notify **TCL** in writing. In no event shall such notification be received by **TCL** later than 13 months from the date of delivery. Within a reasonable time after such notification, **TCL** will, at its absolute discretion, (a) correct any failure of the product to conform to drawings, specifications or any defect in material or workmanship, with either replacement or repair of the product, or (b) refund, in part or in whole, the purchase price. Such replacement and repair, excluding charges for labour, is at **TCL**'s expense. All warranty service will be performed at service centres designated by **TCL**. These remedies are the purchaser's exclusive remedies for breach of warranty.

TCL does not warrant (a) any product, components or parts not manufactured by **TCL**, (b) defects caused by failure to provide a suitable installation environment for the product, (c) damage caused by use of the product for purposes other than those for which it was designed, (d) damage caused by disasters such as fire, flood, wind, and lightning, (e) damage caused by unauthorized attachments or modification, (f) any other abuse or misuse by the purchaser, or (g) failure of the product due to the installation of an incorrect size or model. The purchaser shall at all times ensure that the size and model installed and used is in accordance with the methodology and calculations as set out in the **TCL** current Brochure. If at any time the purchaser is unsure of what size and model to use, they are to contact **TCL** for confirmation.

THE FOREGOING WARRANTIES ARE IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

In no case shall **TCL** be liable for any special, incidental, or consequential damages based upon breach of warranty, breach of contract, negligence, strict tort, or any other legal theory, and in no case shall total liability of **TCL** exceed the purchase price of the part upon which such liability is based. Such damages include, but are not limited to, loss of profits, loss of savings or revenue, loss of use of the product or any associated equipment, cost of capital, cost of any substitute equipment, facilities or services, downtime, the claims of third parties including customers, and injury to property. Some states do not allow limits on warranties, or on remedies for breach in certain transactions. In such states, the limits in this paragraph and in paragraph (2) shall apply to the extent allowable under case law and statutes in such states.

Any action for breach of warranty or any other legal theory must be commenced within 15 months following delivery of the goods.

Unless modified in a writing signed by both parties, this agreement is understood to be the complete and exclusive agreement between the parties, superseding all prior agreements, oral or written, and all other communications between the parties relating to the subject matter of this agreement. No employee of **TCL** or any other party is authorized to make any warranty in addition to those made in this agreement.

This agreement allocates the risks of product failure between **TCL** and the purchaser. This allocation is recognised by both parties and is reflected in the price of the goods. The purchaser acknowledges that it has read this agreement, understands it, and is bound by its terms.

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Although care has been taken to assure the accuracy of the data compiled in this catalogue, **TCL** does not assume any liability to any company or person for errors or omissions.

COUPLING PART NUMBER DESCRIBED

Our numbering system uses a total of 9 digits, which has as base numbers the 1st 6 digits which is designated as the Series number.

001 201 S Series:	001 301 R Series	001 401 V Series
001 501 E Series	001 601 L Series	001 701 ST Series
001 801 ET Series	001 901 C Series	001 999 Custom Design

The last 3 numbers give the model size (excluding V00 which as 4 digits, see below)
 It is illustrated here with the R Series.

Example, Coupling Part Number for TCAE-R-1 complete coupling corresponds to 001301001:

001:	Complete coupling or flange
301:	Model number (R Series)
001:	Size of the model (Size 1)

The exception is the V Series model TCAE-V-00, which uses 10 digits. is represented as 0014010000:

001:	Complete coupling
401:	V Series designation
0000:	Model number

Flange Part Numbers are 10-digit number, which incorporates the same 9 digit model number that the size coupling it equates to but with an additional designations at the end. The last digit indicates the type of flange:

3	Pilot Bored flanges
7	Taper Lock flanges

For example, a flange for the V-3 Coupling Part Number is represented as 0014010033, which breaks down as follows:

001:	Complete coupling flange
401:	V Series designation
003:	Size 3 coupling flange
3:	Indicates it is a Pilot Bored flange

OR

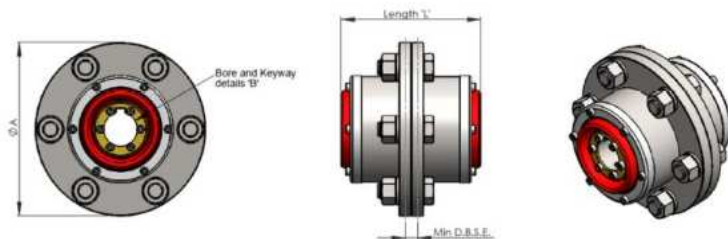
if it is 0014010037

7:	Indicates it is a Taper Lock flange.
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Technical Information and Engineering Data

TCAE - S SERIES : SPECIFICATIONS

PARAMETERS		UNIT	TCAE-S-1	TCAE-S-2	TCAE-S-3	TCAE-S-4	TCAE-S-5	TCAE-S-6	TCAE-S-7
CONTINUOUS TORQUE, T_{100}^*		N.m	408	826	1,443	2,243	3,686	3,823	5,898
NOMINAL POWER CAP AT:	1000 RPM	kW	43	86	151	235	386	400	618
(Based on machine service factor of 1.25 misaligned angle of 1 degree and service life of 7,200 hours)	1500 RPM	kW	64	130	227	352	580	600	926
	MAX RPM	kW	3,000 rpm 128 kW	3,000 rpm 260 kW	3,000 rpm 453 kW	3,000 rpm 704 kW	3,000 rpm 1160 kW	2,200 rpm 880 kW	2,200rpm 1,360 kW
MAXIMUM MISALIGNMENT		Degree	±5 ° Per Head	±5 ° Per Head	±5° Per Head	±5 ° Per Head	±5 ° Per Head	±5 ° Per Head	±5 ° Per Head
MAXIMUM PARALLEL SHAFT OFFSET		mm	6	7	7	7	7	9	9
MAXIMUM SERVICE TEMPERATURE		°C	120	120	120	120	120	120	120
SERVICE LIFE	AS PER CUSTOMER APPLICATION								
DIMENSION ØA		mm	152	179	215	236	270	244	272
MINIMUM D.B.S.E.		mm	10	10	10	10	10	10	10
DIMENSION L		mm	124	158	166	171	221	216	244
MAXIMUM AXIAL EXPANSION		± mm	±14	±13	±11	±17	±23	±18	±14
BORE SIZE øB		mm	30	40	50	55	60	65	65
		inch	1 1/8	1 1/2	2	2 1/4	2 3/8	2 5/9	2 5/9
		KEY	8x7	12x8	14x9	16x10	18x11	18x11	18x11



PARAMETERS		UNIT	TCAE-S-8	TCAE-S-9	TCAE-S-10	TCAE-S-11	TCAE-S-12	TCAE-S-13	TCAE-S-14
CONTINUOUS TORQUE, T_{100}^*		N.m	7,741	12,217	18,115	25,909	35,598	47,604	66,983
NOMINAL POWER CAP AT:	1000 RPM	kW	810	1,280	1,900	2,710	3,730	4,985	
(Based on machine service factor of 1.25 misaligned angle of 1 degree and service life of 7,200 hours)	1500 RPM	kW	1216	1,920					
	MAX RPM	kW	2,200 rpm 1,784 kW	2,000 rpm 2,560 kW	1,500 rpm 2,850 kW	1,400 rpm 3,800 kW	1,200 rpm 4,473 kW	1,000 rpm 4,985 kW	800 rpm 7,015 kW
MAXIMUM MISALIGNMENT		Degree	±5 ° Per Head	±5 ° Per Head	±5° Per Head	±5 ° Per Head	±5 ° Per Head	±5 ° Per Head	±5 ° Per Head
MAXIMUM PARALLEL SHAFT OFFSET		mm	9	9	9	9	9	11	11
MAXIMUM SERVICE TEMPERATURE		°C	120	120	120	120	120	120	120
SERVICE LIFE	AS PER CUSTOMER APPLICATION								
DIMENSION ØA		mm	292	336	376	429	462	504	580
MINIMUM D.B.S.E.		mm	10	10	10	18	18	18	18
DIMENSION L		mm	360	371	450	445	490	490	519
MAXIMUM AXIAL EXPANSION		± mm	±37	±32	±46	±44	±48	±50	±50
BORE SIZE øB		mm	85	100	125	130	150	170	200
		inch	3 1/3	4	5	5	5 1/9	7	7 7/8
		KEY	22x14	28x16	32x18	32x19	36x20	40x22	45x25

* continuous torque, t_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine but service factor of 1 will give 3 years continuous service life.

Thompson Coupling Alignment Eliminator (TCAE-S-1) Technical Specifications and Details

Continuous Torque, $T_{100}^{(4)}$	408 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	+/- 6 mm
L₁₀ bearing life ⁽²⁾	As per Calculation or contact Company / Distributor
Max. Service Temperature	Up to 120°C continuous
Connection Details	Keyed shaft – Max. diameter up to 30 mm Key – 8x7 (Pilot-bore option available)
Max Swing Diameter	152 mm
MIN DBSE & Max Axial Expansion	10 mm MIN DBSE +14 mm Expansion
Overall Length	124 mm
Weight	5 kg (excluding flanges)
Coupling Part Number	001-201-001

(1) Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours.

(2) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

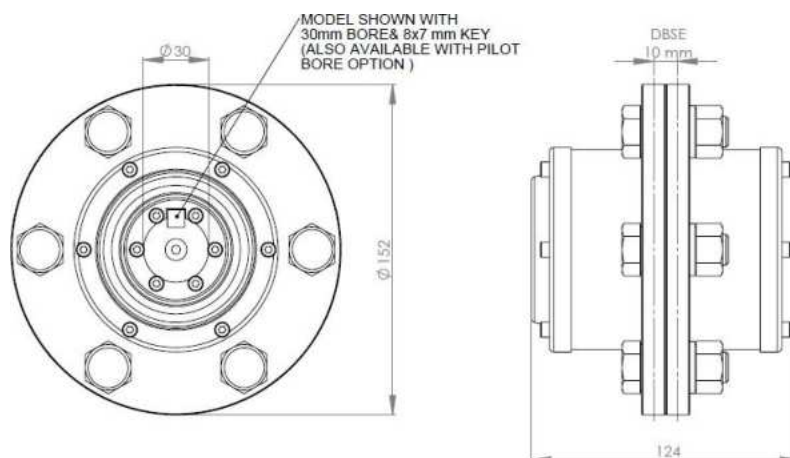
(3) Maximum rated speed.

(4) Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.

II. The coupling does not need maintenance or lubrication once installed.



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Thompson Coupling Alignment Eliminator (TCAE-S-2)

Technical Specifications and Details

Continuous Torque, $T_{100}^{(4)}$	826 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	+/- 7 mm
L₁₀ bearing life ⁽²⁾	As per Calculation or contact Company / Distributor
Max. Service Temperature	Up to 120 °C continuous
Connection Details	Keyed shaft – Max. diameter up to 40 mm Key – 12x8 (Pilot-bore option available)
Max Swing Diameter	179 mm
MIN DBSE & Max Axial Expansion	10 mm MIN DBSE +13 mm Expansion
Overall Length	158 mm
Weight	11 kg (excluding flanges)
Coupling Part Number	001-201-002

(1) Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours.

(2) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

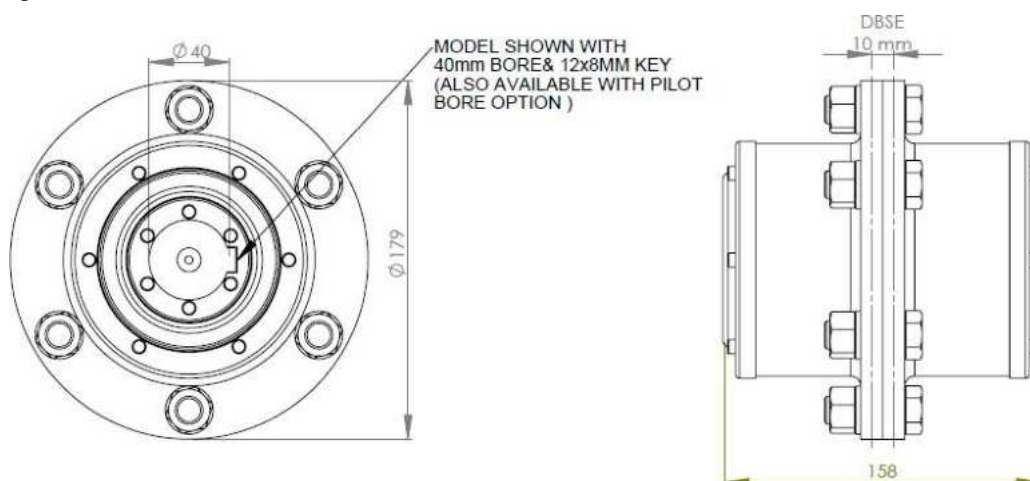
(3) Maximum rated speed.

(4) Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.

II. The coupling does not need maintenance or lubrication once installed.



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Thompson Coupling Alignment Eliminator (TCAE-S-3)

Technical Specifications and Details

Continuous Torque, $T_{100}^{(4)}$	1,443 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	+/- 7 mm
L₁₀ bearing life ⁽²⁾	As per Calculation or contact Company / Distributor
Max. Service Temperature	Up to 120 °C continuous
Connection Details	Keyed shaft – Max. diameter up to 50 mm Key – 14x9 (Pilot-bore option available)
Max Swing Diameter	215 mm
MIN DBSE & Max Axial Expansion	10 mm MIN DBSE +11 mm Expansion
Overall Length	166 mm
Weight	15 kg (excluding flanges)
Coupling Part Number	001-201-003

(1) Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours.

(2) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

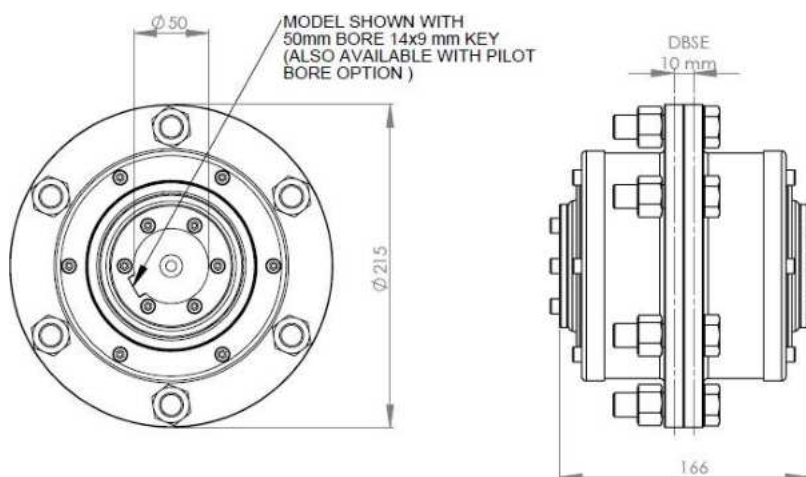
(3) Maximum rated speed.

(4) Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.

II. The coupling does not need maintenance or lubrication once installed.



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Thompson Coupling Alignment Eliminator (TCAE-S-4) Technical Specifications and Details

Continuous Torque, $T_{100}^{(4)}$	2,243 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	+/- 7 mm
L₁₀ bearing life ⁽²⁾	As per Calculation or contact Company / Distributor
Max. Service Temperature	Up to 120 °C continuous
Connection Details	Keyed shaft – Max. diameter up to 55 mm Key – 16x10 (Pilot-bore option available)
Max Swing Diameter	236 mm
MIN DBSE & Max Axial Expansion	10 mm MIN DBSE +17 mm Expansion
Overall Length	171 mm
Weight	18 kg (excluding flanges)
Coupling Part Number	001-201-004

(1) Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours.

(2) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

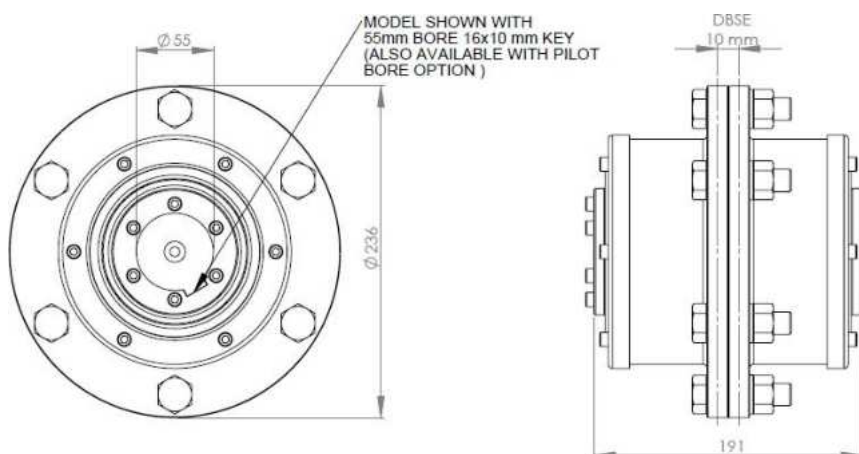
(3) Maximum rated speed.

(4) Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.

II. The coupling does not need maintenance or lubrication once installed.



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Thompson Coupling Alignment Eliminator (TCAE-S-5) Technical Specifications and Details

Continuous Torque, $T_{100}^{(4)}$	3,686 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	+/- 7 mm
L₁₀ bearing life ⁽²⁾	As per Calculation or contact Company / Distributor
Max. Service Temperature	Up to 120 °C continuous
Connection Details	Keyed shaft – Max. diameter up to 60 mm Key – 18x11 (Pilot-bore option available)
Max Swing Diameter	270 mm
MIN DBSE & Max Axial Expansion	10 mm MIN DBSE +23 mm Expansion
Overall Length	221 mm
Weight	33 kg (excluding flanges)
Coupling Part Number	001-201-005

(1) Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours.

(2) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

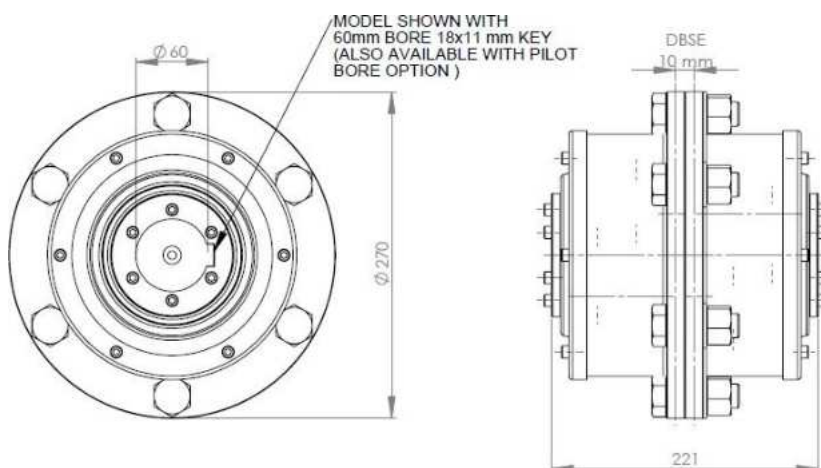
(3) Maximum rated speed.

(4) Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.

II. The coupling does not need maintenance or lubrication once installed.



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Thompson Coupling Alignment Eliminator (TCAE-S-6) Technical Specifications and Details

Continuous Torque, $T_{100}^{(4)}$	3,823 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	+/- 9 mm
L₁₀ bearing life ⁽²⁾	As per Calculation or contact Company / Distributor
Max. Service Temperature	Up to 120 °C continuous
Connection Details	Keyed shaft – Max. diameter up to 65 mm Key – 18x11 (Pilot-bore option available)
Max Swing Diameter	244 mm
MIN DBSE & Max Axial Expansion	10 mm MIN DBSE +18 mm Expansion
Overall Length	216 mm
Weight	35 kg (excluding flanges)
Coupling Part Number	001-201-006

(1) Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours.

(2) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

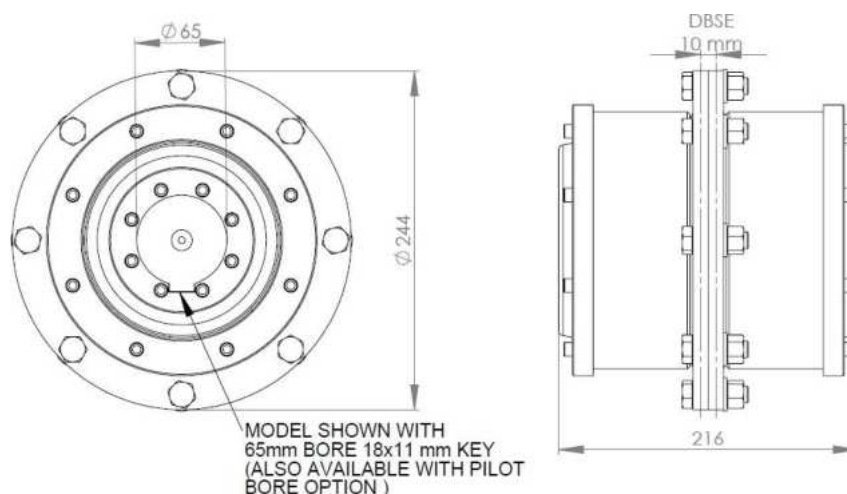
(3) Maximum rated speed.

(4) Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.

II. The coupling does not need maintenance or lubrication once installed.



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Thompson Coupling Alignment Eliminator (TCAE-S-7) Technical Specifications and Details

Continuous Torque, $T_{100}^{(4)}$	5,898 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	+/- 9 mm
L₁₀ bearing life ⁽²⁾	As per Calculation or contact Company / Distributor
Max. Service Temperature	Up to 120 °C continuous
Connection Details	Keyed shaft – Max. diameter up to 65 mm Key – 18x11 (Pilot-bore option available)
Max Swing Diameter	272 mm
MIN DBSE & Max Axial Expansion	10 mm MIN DBSE +14 mm Expansion
Overall Length	244 mm
Weight	37 kg (excluding flanges)
Coupling Part Number	001-201-007

(1) Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours

(2) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

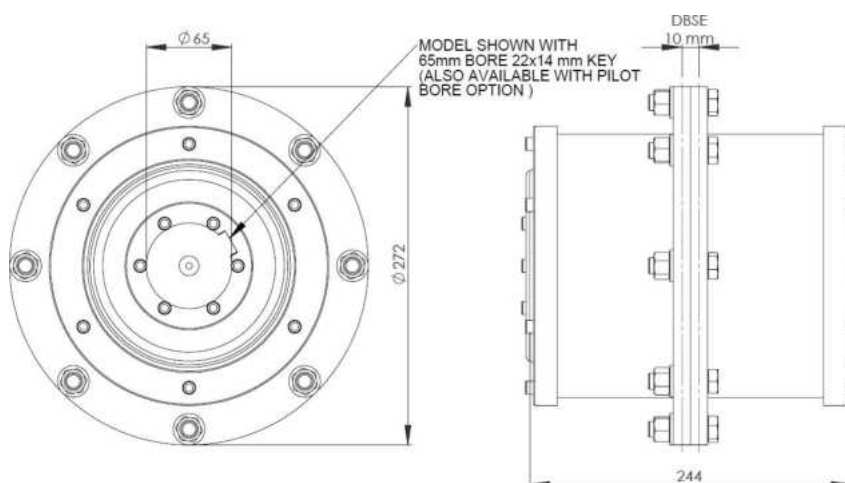
(3) Maximum rated speed.

(4) Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.

II. The coupling does not need maintenance or lubrication once installed.



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Thompson Coupling Alignment Eliminator (TCAE-S-8) Technical Specifications and Details

Continuous Torque, $T_{100}^{(4)}$	7,741 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	+/- 9 mm
L₁₀ bearing life ⁽²⁾	As per Calculation or contact Company / Distributor
Max. Service Temperature	Up to 120 °C continuous
Connection Details	Keyed shaft – Max. diameter up to 85 mm Key – 22x14 (Pilot-bore option available)
Max Swing Diameter	292 mm
MIN DBSE & Max Axial Expansion	10 mm MIN DBSE +37 mm Expansion
Overall Length	315 mm
Weight	52 kg (excluding flanges)
Coupling Part Number	001-201-008

(1) Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours.

(2) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

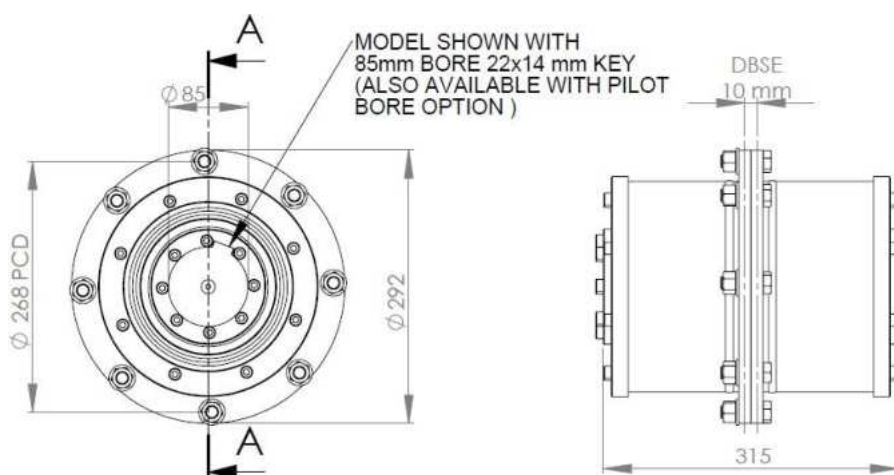
(3) Maximum rated speed.

(4) Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.

II. The coupling does not need maintenance or lubrication once installed.



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Thompson Coupling Alignment Eliminator (TCAE-S-9) Technical Specifications and Details

Continuous Torque, $T_{100}^{(4)}$	12,217 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	+/- 9 mm
L₁₀ bearing life ⁽²⁾	As per Calculation or contact Company / Distributor
Max. Service Temperature	Up to 120 °C continuous
Connection Details	Keyed shaft – Max. diameter Up to 120 mm Key – 28x16 (Pilot-bore option available)
Max Swing Diameter	336 mm
MIN DBSE & Max Axial Expansion	10 mm MIN DBSE +32 mm Expansion
Overall Length	347 mm
Weight	80 kg (excluding flanges)
Coupling Part Number	001-201-009

(1) Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours.

(2) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

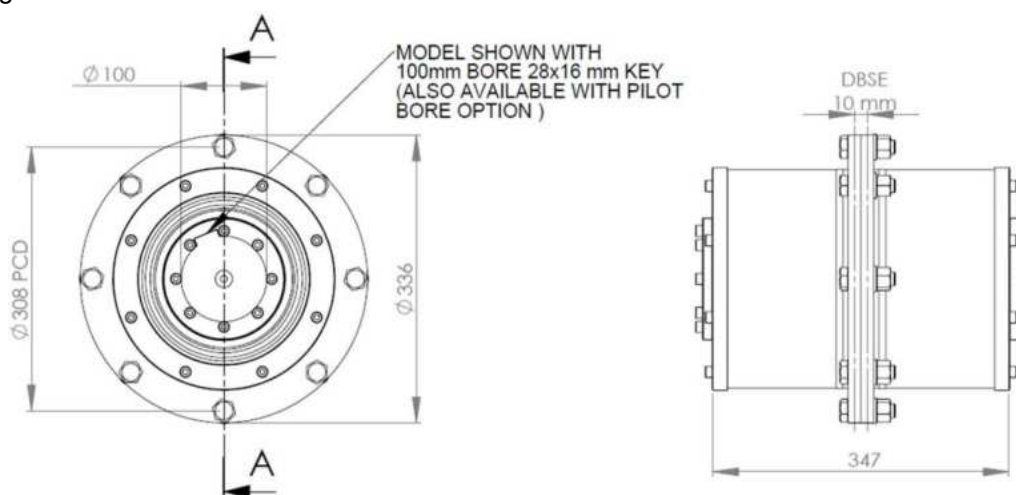
(3) Maximum rated speed.

(4) Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.

II. The coupling does not need maintenance or lubrication once installed.



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Thompson Coupling Alignment Eliminator (TCAE-S-10) Technical Specifications and Details

Continuous Torque, $T_{100}^{(4)}$	18,115 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	+/- 9 mm
L₁₀ bearing life ⁽²⁾	As per Calculation or contact Company / Distributor
Max. Service Temperature	Up to 120 °C continuous
Connection Details	Keyed shaft – Max. diameter up to 125 mm Key – 32x18 (Pilot-bore option available)
Max Swing Diameter	376 mm
MIN DBSE & Max Axial Expansion	10 mm MIN DBSE +46 mm Expansion
Overall Length	423 mm
Weight	113 kg (excluding flanges)
Coupling Part Number	001-201-010

(1) Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours

(2) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

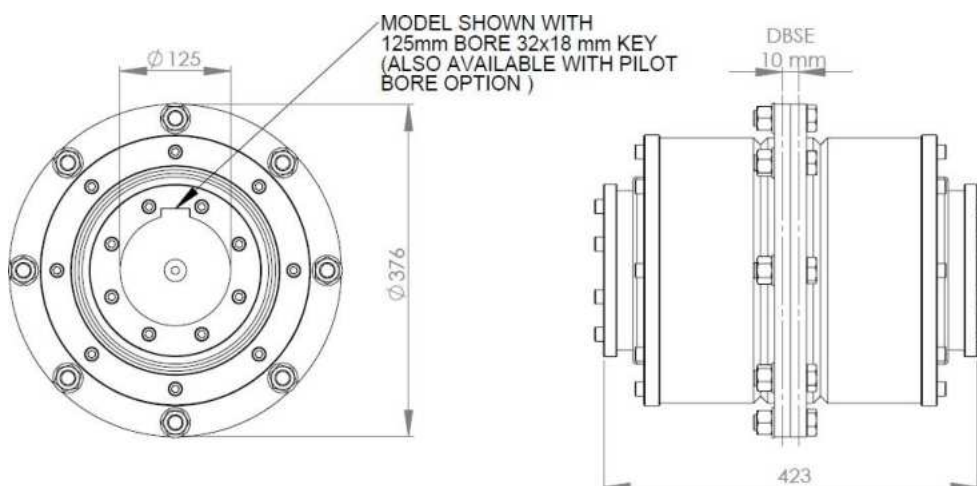
(3) Maximum rated speed.

(4) Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.

II. The coupling does not need maintenance or lubrication once installed.



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Thompson Coupling Alignment Eliminator (TCAE-S-11) Technical Specifications and Details

Continuous Torque, $T_{100}^{(4)}$	25,909 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	+/- 9 mm
L₁₀ bearing life ⁽²⁾	As per Calculation or contact Company / Distributor
Max. Service Temperature	Up to 120 °C continuous
Connection Details	Keyed shaft – Max. diameter up to 130 mm Key – 32x18 (Pilot-bore option available)
Max Swing Diameter	420 mm
MIN DBSE & Max Axial Expansion	18 mm MIN DBSE +44 mm Expansion
Overall Length	445 mm
Weight	120 kg (excluding flanges)
Coupling Part Number	001-201-011

(1) Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours.

(2) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

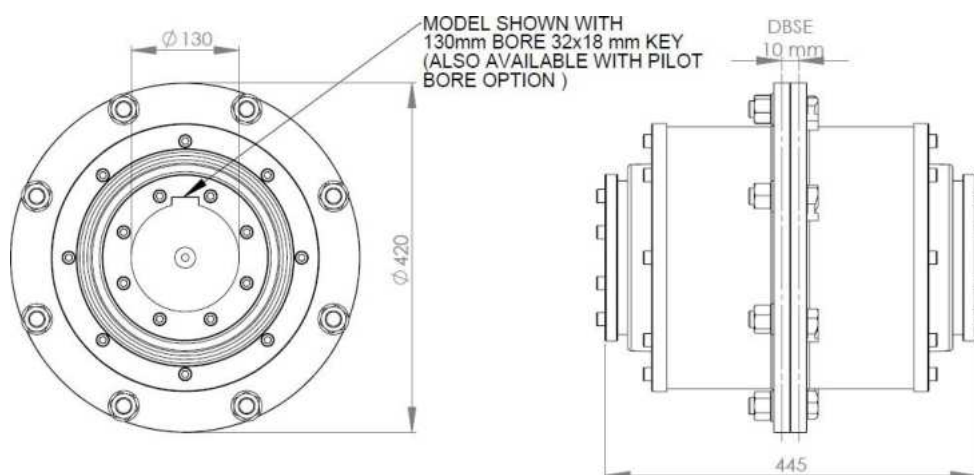
(3) Maximum rated speed.

(4) Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.

II. The coupling does not need maintenance or lubrication once installed.



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Thompson Coupling Alignment Eliminator (TCAE-S-12) Technical Specifications and Details

Continuous Torque, $T_{100}^{(4)}$	35,598 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	+/- 9 mm
L₁₀ bearing life ⁽²⁾	As per Calculation or contact Company / Distributor
Max. Service Temperature	Up to 120 °C continuous
Connection Details	Keyed shaft – Max. diameter up to 150 mm Key – 36x20 (Pilot-bore option available)
Max Swing Diameter	462 mm
MIN DBSE & Max Axial Expansion	18 mm MIN DBSE +48 mm Expansion
Overall Length	491 mm
Weight	173 kg (excluding flanges)
Coupling Part Number	001-201-012

(1) Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours

(2) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

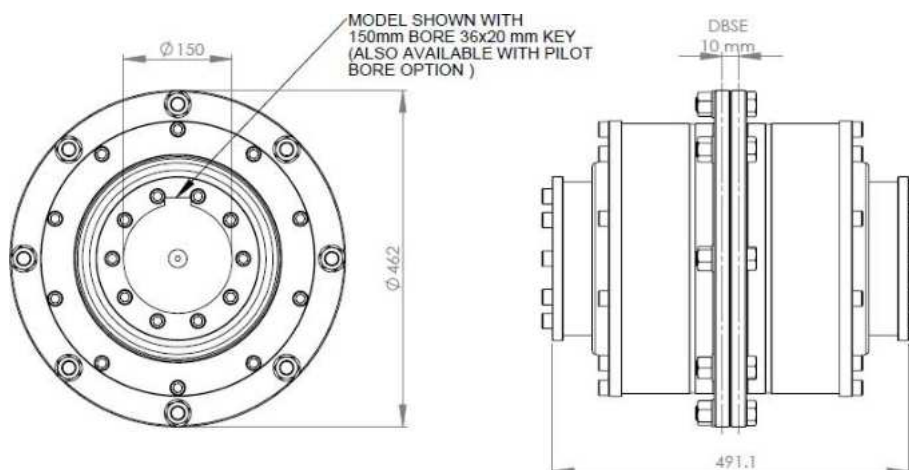
(3) Maximum rated speed.

(4) Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.

II. The coupling does not need maintenance or lubrication once installed.



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Thompson Coupling Alignment Eliminator (TCAE-S-13) Technical Specifications and Details

Continuous Torque, $T_{100}^{(4)}$	47,604 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	+/- 11 mm
L₁₀ bearing life ⁽²⁾	As per Calculation or contact Company / Distributor
Max. Service Temperature	Up to 120 °C continuous
Connection Details	Keyed shaft – Max. diameter up to 170 mm Key – 40x22 (Pilot-bore option available)
Max Swing Diameter	504 mm
MIN DBSE & Max Axial Expansion	18 mm MIN DBSE +50 mm Expansion
Overall Length	490 mm
Weight	226 kg (excluding flanges)
Coupling Part Number	001-201-013

(1) Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours.

(2) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

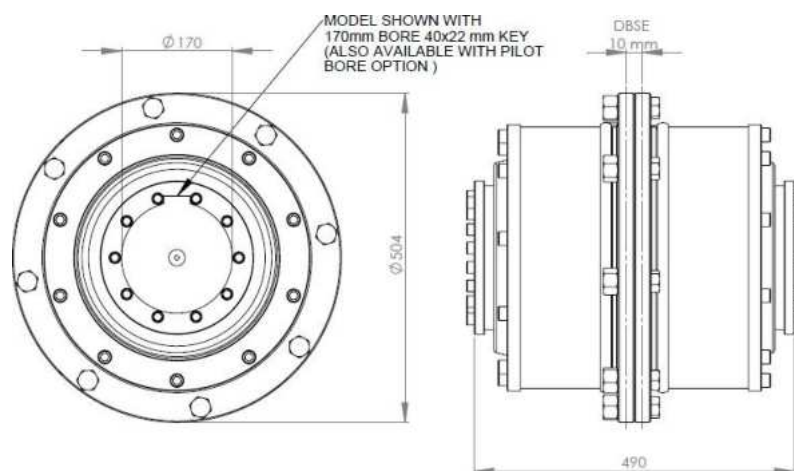
(3) Maximum rated speed.

(4) Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.

II. The coupling does not need maintenance or lubrication once installed.



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Thompson Coupling Alignment Eliminator (TCAE-S-14) Technical Specifications and Details

Continuous Torque, $T_{100}^{(4)}$	66,983 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	+/- 11 mm
L₁₀ bearing life ⁽²⁾	As per Calculation or contact Company / Distributor
Max. Service Temperature	Up to 120 °C continuous
Connection Details	Keyed shaft – Max. diameter up to 200 mm Key – 45x25 (Pilot-bore option available)
Max Swing Diameter	580 mm
MIN DBSE & Max Axial Expansion	18 mm MIN DBSE +50 mm Expansion
Overall Length	519 mm
Weight	274 kg (excluding flanges)
Coupling Part Number	001-201-014

(1) Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours.

(2) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

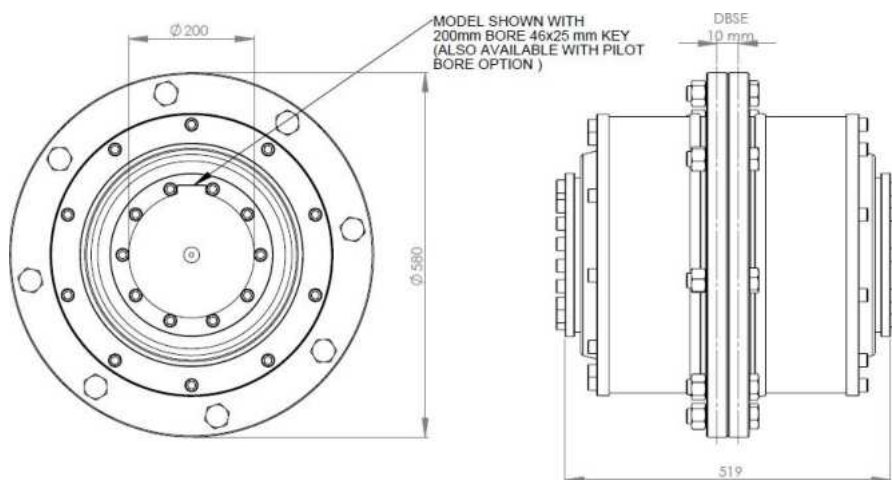
(3) Maximum rated speed.

(4) Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:






I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.

II. The coupling does not need maintenance or lubrication once installed.



Dimensions and specifications subject to change without notice – Rev 9. Amended April 2025

TCAE - V SERIES : SPECIFICATIONS

PARAMETERS		UNIT	TCAE-V-00	TCAE-V-0	TCAE-V-1	TCAE-V-2	TCAE-V-3	TCAE-V-4	TCAE-V-5	TCAE-V-6
CONTINUOUS TORQUE, T ₁₀₀ *		N.m	176	279	408	837	1,415	2,190	3,616	6,185
NOMINAL POWER CAP AT: (Based on machine service factor of 1.25 misaligned angle of 1 degree and service life of 7,200 hours)	1000 RPM	kW	18	29	43	88	148	230	380	647
	1500 RPM	kW	28	44	64	131	222	344	570	971
	MAX RPM	kW	3,000 rpm 55 kW	3,000 rpm 88 kW	3,000 rpm 128 kW	3,000 rpm 262 kW	3,000 rpm 444 kW	3,000 rpm 690 kW	3,000 rpm 1135 kW	2,200 rpm 1,424 kW
MAXIMUM MISALIGNMENT		Degree	10°	10°	10°	10°	10°	10°	10°	10°
MAXIMUM PARALLEL SHAFT OFFSET		mm	8	8	10	12	14	16	19	25
MAXIMUM SERVICE TEMPERATURE		°C	120	120	120	120	120	120	120	120
SERVICE LIFE		AS PER CUSTOMER APPLICATION								
DIMENSION ØA		mm	118	134	152	177	215	236	270	244
Dimension B Nominal D.B.S.E. Range		mm	78 to 86	86 to102	100 to 116	122 to 138	146 to 166	170 to 190	206 to 226	253 to 307
DIMENSION C FLANGE LENGTH		mm	44	38	42	44.5	50.8	108	127	130
DBSE NOTE: In the V Series, an extra 3mm-20mm DBSE can be obtained, also Sizes 9-14 can be longer by request. Contact Company or Distributor.										
MAXIMUM AXIAL EXPANSION		± mm	8	10	16	16	20	20	20	54
BORE SIZE øB		mm	PILOT BORED OR TAPER LOCK FLANGES							
		inch								
		KEY								
<div></div>										
PARAMETERS		UNIT	TCAE-V-7	TCAE-V-8	TCAE-V-9	TCAE-V-10	TCAE-V-11	TCAE-V-12	TCAE-V-13	TCAE-V-14
CONTINUOUS TORQUE, T ₁₀₀ *		N.m	8,150	16,870	23,053	31,967	38,669	66,414	110,185	167,457
NOMINAL POWER CAP AT: (Based on machine service factor of 1.25 misaligned angle of 1 degree and service life of 7,200 hours)	1000 RPM	kW	853	1,766	2,414	3,347	4,049	6,954		
	1500 RPM	kW	1,280	2,650	3,621					
	MAX RPM	kW	2,200rpm 1,877 kW	2,200 rpm 3886 kW	2,000 rpm 4.828 kW	1,500 rpm 5,021 kW	1,400 rpm 5,669 kW	1,200 rpm 8,345 kW	1,000 rpm 11,537 kW	800 rpm 14,028 kW
MAXIMUM MISALIGNMENT		Degree	10°	10°	10°	10°	10°	10°	10°	10°
MAXIMUM PARALLEL SHAFT OFFSET		mm	25	25	31	34	37	52	52	58
MAXIMUM SERVICE TEMPERATURE		°C	120	120	120	120	120	120	120	120
SERVICE LIFE		AS PER CUSTOMER APPLICATION								
DIMENSION ØA		mm	272	292	336	376	429	462	504	580
Dimension B Nominal D.B.S.E. Range		mm	285 to 355	330 to 410	387 to 473	433 to 527	469 to 571	494 to 606	524 to 636	569 to 691
DIMENSION C FLANGE LENGTH		mm	150	150	153.5	160	160	190	To Order	To Order
DBSE NOTE: In the V Series, an extra 3mm-20mm DBSE can be obtained, also Sizes 9-14 can be longer by request. Contact Company or Distributor.										
MAXIMUM AXIAL EXPANSION		± mm	60	60	80	80	90	100	100	60
BORE SIZE øB		mm	PILOT BORED OR TAPER LOCK FLANGES							
		inch								
* NOTE 1: continuous torque, t ₁₀₀ is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine, but service factor of 1 will give 3 years continuous service life.										

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Thompson Coupling Alignment Eliminator (TCAE-V-00) Technical Specifications and Details

Continuous Torque, $T_{100}^{(4)}$	176 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	+/- 8 mm
L_{10} bearing life ⁽²⁾	As per Calculation or contact Company / Distributor
Max. Service Temperature	Up to 120 °C continuous
Connection Details	Keyed shaft via taper lock bush #1615. Shaft size range 14mm - 42mm (0.55" – 1.65")
Max Swing Diameter	118 mm
Distance between Shaft Ends	78 - 86 mm.
Weight	2 kg (excluding flanges)
Coupling Part Number	001-401-0000
Pilot Bored Flange Part Number	001-401-00003
Taper Lock Flange Part Number	001-401-00007

⁽¹⁾ Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours.

⁽²⁾ Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

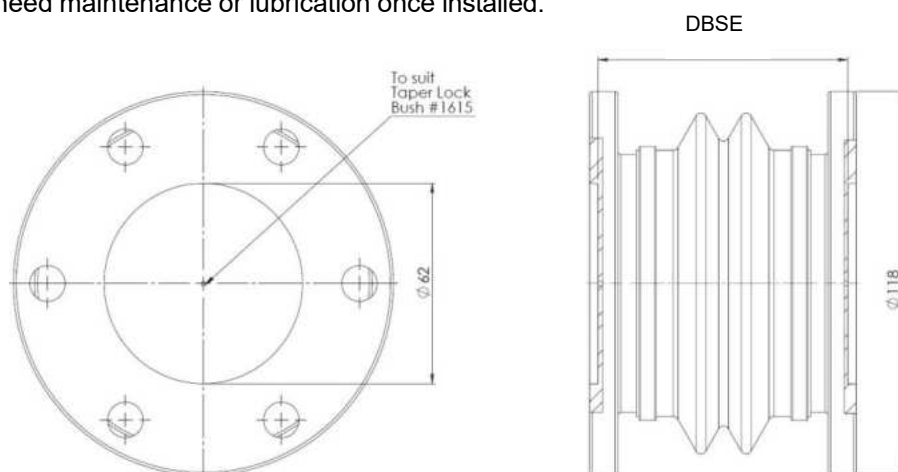
⁽³⁾ Maximum rated speed.

⁽⁴⁾ Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.

II. The coupling does not need maintenance or lubrication once installed.



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Thompson Coupling Alignment Eliminator (TCAE-V-0) Technical Specifications and Details

Continuous Torque, $T_{100}^{(4)}$	279 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	+/- 8 mm
L₁₀ bearing life ⁽²⁾	As per Calculation or contact Company / Distributor
Max. Service Temperature	Up to 120 °C continuous
Connection Details	Pilot-bored flanges or Taper Lock flanges
Max Swing Diameter	134 mm
Distance between Shaft Ends	86 – 102 mm.
Weight	3 kg (excluding flanges)
Coupling Part Number	001-401-000
Pilot Bored Flange Part Number	001-401-0003
Taper Lock Flange Part Number	001-401-0007

(1) Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours.

(2) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

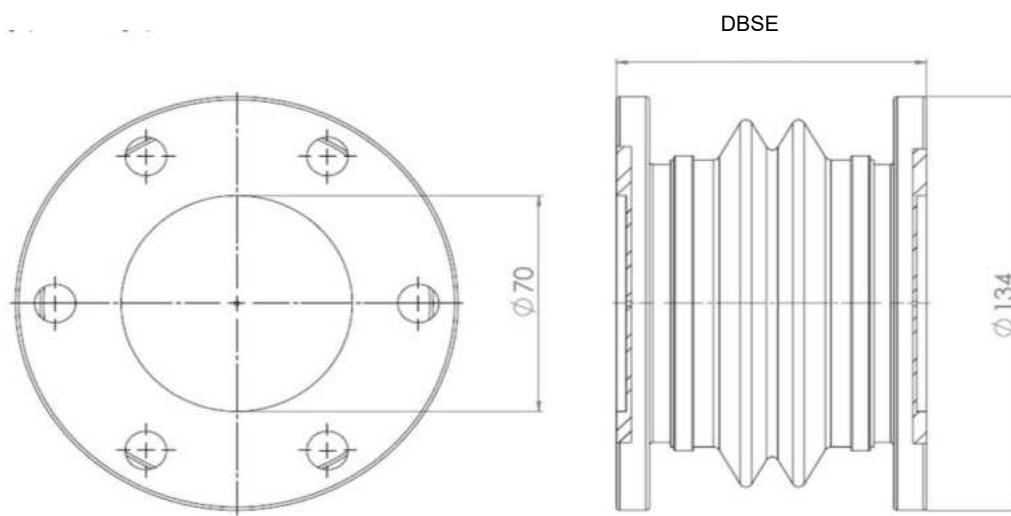
(3) Maximum rated speed.

(4) Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.

II. The coupling does not need maintenance or lubrication once installed.



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Thompson Coupling Alignment Eliminator (TCAE-V-1) Technical Specifications and Details

Continuous Torque, $T_{100}^{(4)}$	408 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	+/- 10 mm
L₁₀ bearing life ⁽²⁾	As per Calculation or contact Company / Distributor
Max. Service Temperature	Up to 120 °C continuous
Connection Details	Pilot-bored flanges or Taper Lock flanges
Max Swing Diameter	152 mm
Distance between Shaft Ends	100 – 116 mm. Can be longer by request
Weight	6 kg (excluding flanges)
Coupling Part Number	001-401-001
Pilot Bored Flange Part Number	001-401-0013
Taper Lock Flange Part Number	001-401-0017

(1) Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours.

(2) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

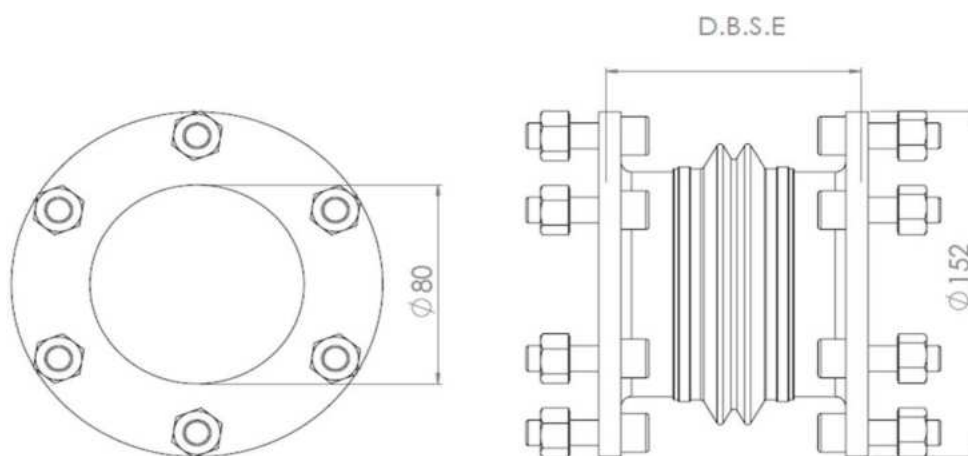
(3) Maximum rated speed.

(4) Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.

II. The coupling does not need maintenance or lubrication once installed.



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Thompson Coupling Alignment Eliminator (TCAE-V-2) Technical Specifications and Details

Continuous Torque, $T_{100}^{(4)}$	837 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	+/- 12 mm
L₁₀ bearing life ⁽²⁾	As per Calculation or contact Company / Distributor
Max. Service Temperature	Up to 120 °C continuous
Connection Details	Pilot-bored flanges or Taper Lock flanges
Max Swing Diameter	177 mm
Distance between Shaft Ends	122 - 138 mm. Can be longer by request
Weight	10 kg (excluding flanges)
Coupling Part Number	001-401-002
Pilot Bored Flange Part Number	001-401-0023
Taper Lock Flange Part Number	001-401-0027

(1) Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours.

(2) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

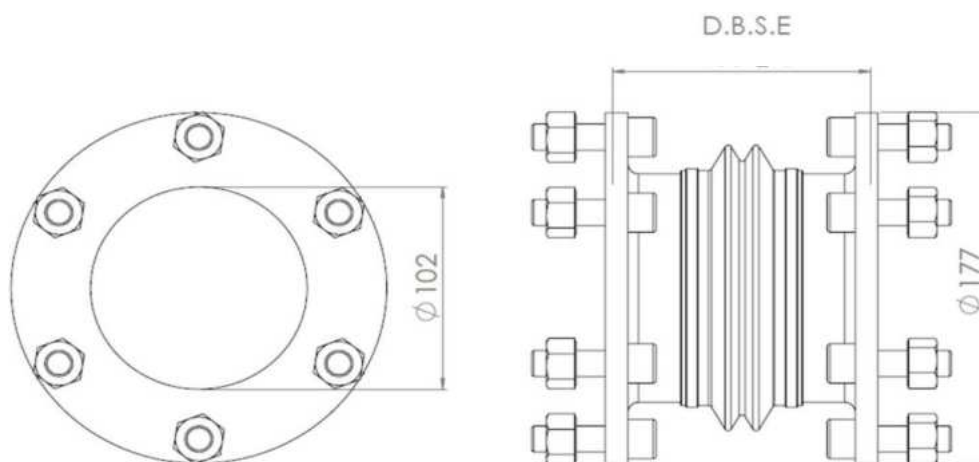
(3) Maximum rated speed.

(4) Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.

II. The coupling does not need maintenance or lubrication once installed.



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Thompson Coupling Alignment Eliminator (TCAE-V-3) Technical Specifications and Details

Continuous Torque, $T_{100}^{(4)}$	1,415 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	+/- 14 mm
L₁₀ bearing life ⁽²⁾	As per Calculation or contact Company / Distributor
Max. Service Temperature	Up to 120 °C continuous
Connection Details	Pilot-bored flanges or Taper Lock flanges
Max Swing Diameter	215 mm
Distance between Shaft Ends	146 – 166 mm. Can be longer by request
Weight	17 kg (excluding flanges)
Coupling Part Number	001-401-003
Pilot Bored Flange Part Number	001-401-0033
Taper Lock Flange Part Number	001-401-0037

⁽¹⁾ Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours.

⁽²⁾ Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

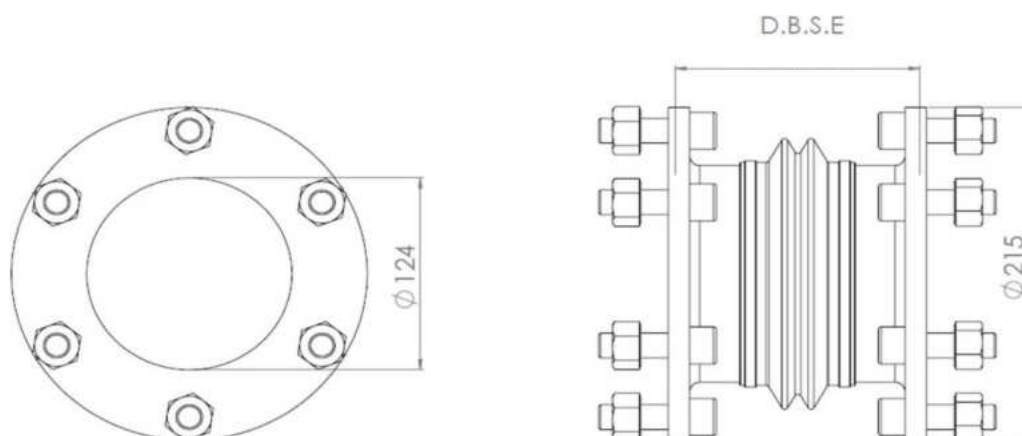
⁽³⁾ Maximum rated speed.

⁽⁴⁾ Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.

II. The coupling does not need maintenance or lubrication once installed.



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Thompson Coupling Alignment Eliminator (TCAE-V-4) Technical Specifications and Details

Continuous Torque, $T_{100}^{(4)}$	2,190 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	+/- 16 mm
L₁₀ bearing life ⁽²⁾	As per Calculation or contact Company / Distributor
Max. Service Temperature	Up to 120 °C continuous
Connection Details	Pilot-bored flanges or Taper Lock flanges
Max Swing Diameter	236 mm
Distance between Shaft Ends	170 – 190 mm. Can be longer by request
Weight	25 kg (excluding flanges)
Coupling Part Number	001-401-004
Pilot Bored Flange Part Number	001-401-0043
Taper Lock Flange Part Number	001-401-0047

(1) Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours.

(2) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

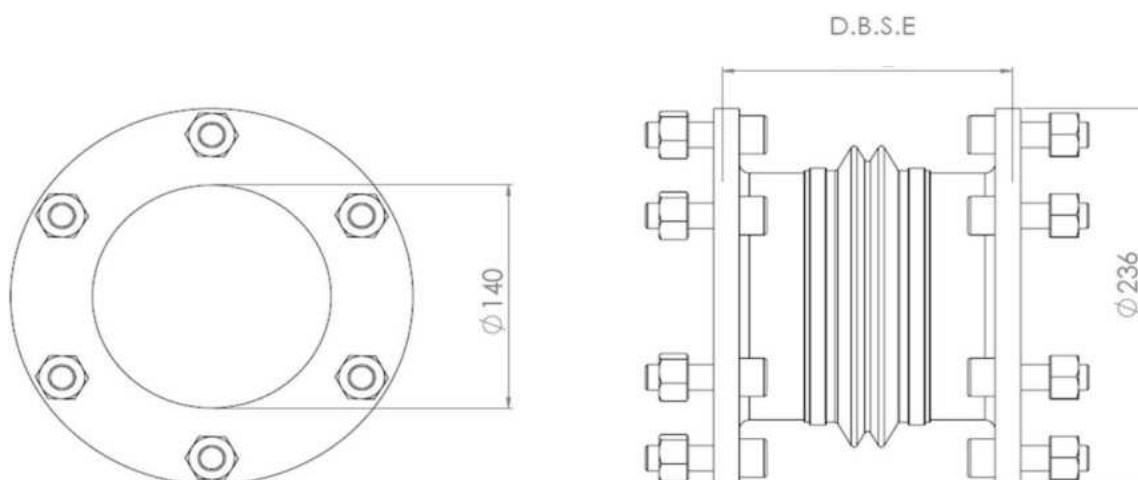
(3) Maximum rated speed.

(4) Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.

II. The coupling does not need maintenance or lubrication once installed.



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Thompson Coupling Alignment Eliminator (TCAE-V-5) Technical Specifications and Details

Continuous Torque, $T_{100}^{(4)}$	3,616 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	+/- 19 mm
L₁₀ bearing life ⁽²⁾	As per Calculation or contact Company / Distributor
Max. Service Temperature	Up to 120 °C continuous
Connection Details	Pilot-bored flanges or Taper Lock flanges
Max Swing Diameter	270 mm
Distance between Shaft Ends	206 – 226 mm. Can be longer by request
Weight	34 kg (excluding flanges)
Coupling Part Number	001-401-005
Pilot Bored Flange Part Number	001-401-0053
Taper Lock Flange Part Number	001-401-0057

(1) Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours.

(2) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

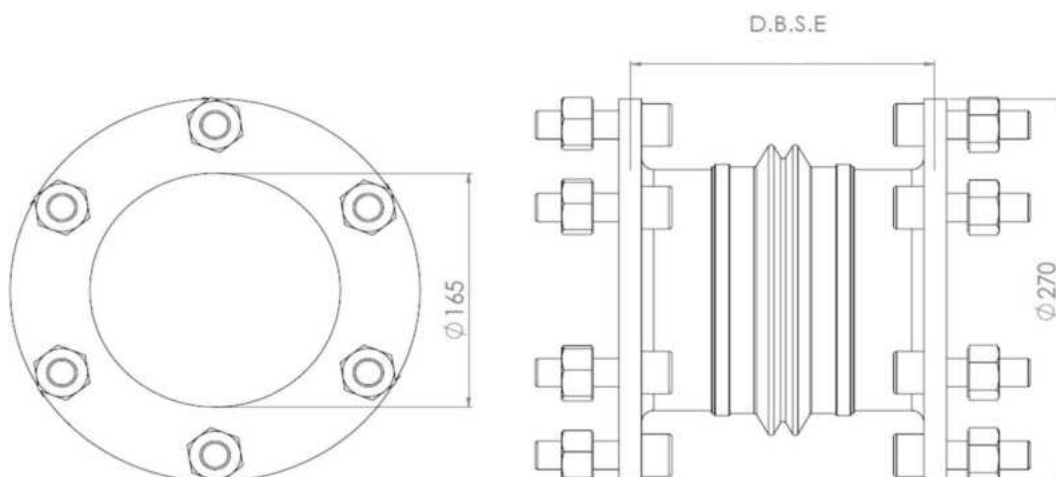
(3) Maximum rated speed.

(4) Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.

II. The coupling does not need maintenance or lubrication once installed.



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Thompson Coupling Alignment Eliminator (TCAE-V-6) Technical Specifications and Details

Continuous Torque, $T_{100}^{(4)}$	6,165 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	+/- 25 mm
L₁₀ bearing life ⁽²⁾	As per Calculation or contact Company / Distributor
Max. Service Temperature	Up to 120 °C continuous
Connection Details	Pilot-bored flanges or Taper Lock flanges
Max Swing Diameter	225 mm
Distance between Shaft Ends	253– 307 mm Can be longer by request
Weight	30 kg (excluding flanges)
Coupling Part Number	001-401-006
Pilot Bored Flange Part Number	001-401-0063
Taper Lock Flange Part Number	001-401-0067

(1) Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours.

(2) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

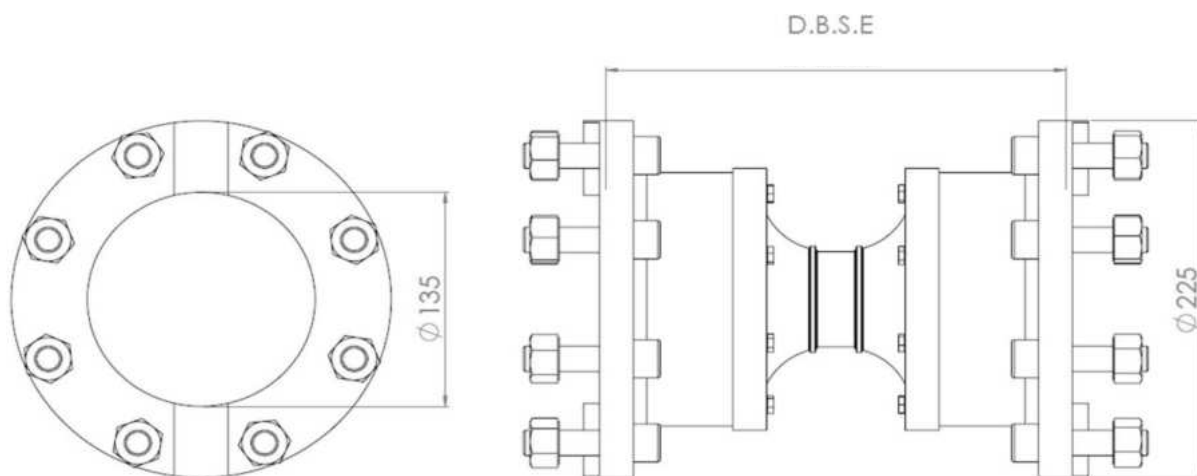
(3) Maximum rated speed.

(4) Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.

II. The coupling does not need maintenance or lubrication once installed.



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Thompson Coupling Alignment Eliminator (TCAE-V-7) Technical Specifications and Details

Continuous Torque, $T_{100}^{(4)}$	8,150 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	+/- 25 mm
L₁₀ bearing life ⁽²⁾	As per Calculation or contact Company / Distributor
Max. Service Temperature	Up to 120 °C continuous
Connection Details	Pilot-bored flanges or Taper Lock flanges
Max Swing Diameter	250 mm
Distance between Shaft Ends	285 – 355 mm Can be longer by request
Weight	39 kg (excluding flanges)
Coupling Part Number	001-401-007
Pilot Bored Flange Part Number	001-401-0073
Taper Lock Flange Part Number	001-401-0077

(1) Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours.

(2) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

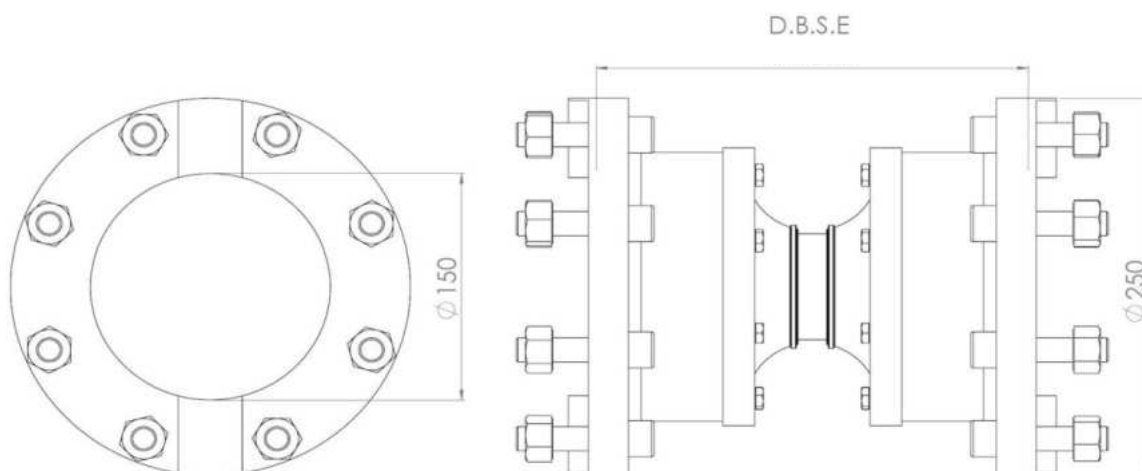
(3) Maximum rated speed.

(4) Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.

II. The coupling does not need maintenance or lubrication once installed.



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Thompson Coupling Alignment Eliminator (TCAE-V-8) Technical Specifications and Details

Continuous Torque, $T_{100}^{(4)}$	16,870 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	+/- 25 mm
L₁₀ bearing life ⁽²⁾	As per Calculation or contact Company / Distributor
Max. Service Temperature	Up to 120 °C continuous
Connection Details	Pilot-bored flanges or Taper Lock flanges
Max Swing Diameter	300 mm
Distance between Shaft Ends	330 – 410 mm Can be longer by request
Weight	50 kg (excluding flanges)
Coupling Part Number	001-401-008
Pilot Bored Flange Part Number	001-401-0083
Taper Lock Flange Part Number	001-401-0087

(1) Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours.

(2) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

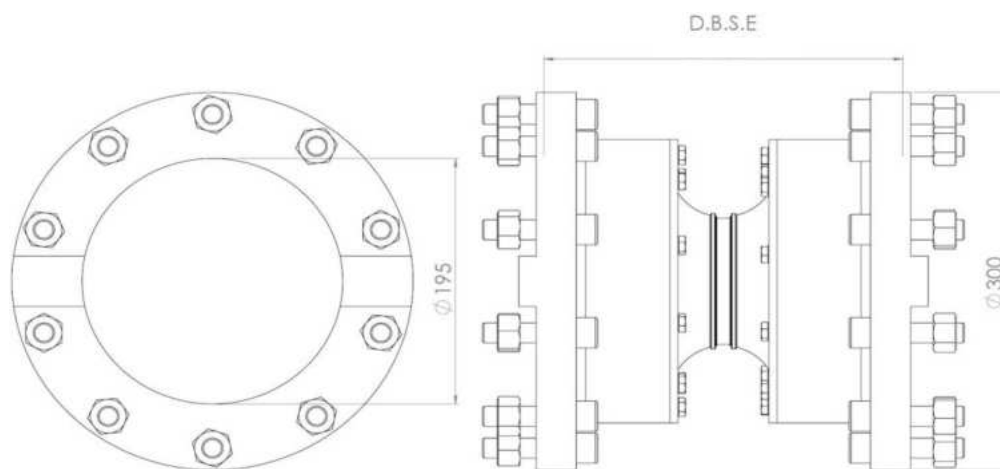
(3) Maximum rated speed.

(4) Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.

II. The coupling does not need maintenance or lubrication once installed.



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Thompson Coupling Alignment Eliminator (TCAE-V-9) Technical Specifications and Details

Continuous Torque, $T_{100}^{(4)}$	23,053 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	+/- 31 mm
L₁₀ bearing life ⁽²⁾	As per Calculation or contact Company / Distributor
Max. Service Temperature	Up to 120 °C continuous
Connection Details	Pilot-bored flanges or Taper Lock flanges
Max Swing Diameter	350 mm
Distance between Shaft Ends	310 – 390 mm Can be longer by request
Weight	74 kg (excluding flanges)
Coupling Part Number	001-401-009
Pilot Bored Flange Part Number	001-401-0093
Taper Lock Flange Part Number	001-401-0097

(1) Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours.

(2) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

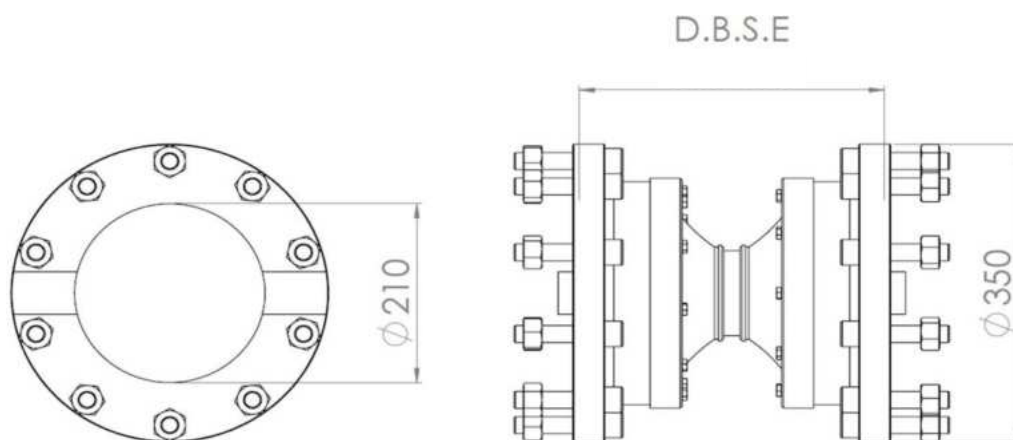
(3) Maximum rated speed.

(4) Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.

II. The coupling does not need maintenance or lubrication once installed.



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Thompson Coupling Alignment Eliminator (TCAE-V-10) Technical Specifications and Details

Continuous Torque, $T_{100}^{(4)}$	31,967 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	+/- 34 mm
L₁₀ bearing life ⁽²⁾	As per Calculation or contact Company / Distributor
Max. Service Temperature	Up to 120 °C continuous
Connection Details	Pilot-bored flanges or Taper Lock flanges
Max Swing Diameter	390 mm
Distance between Shaft Ends	310 – 390 mm Can be longer by request
Weight	103 kg (excluding flanges)
Coupling Part Number	001-401-010
Pilot Bored Flange Part Number	001-401-0103
Taper Lock Flange Part Number	001-401-0107

(1) Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours.

(2) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

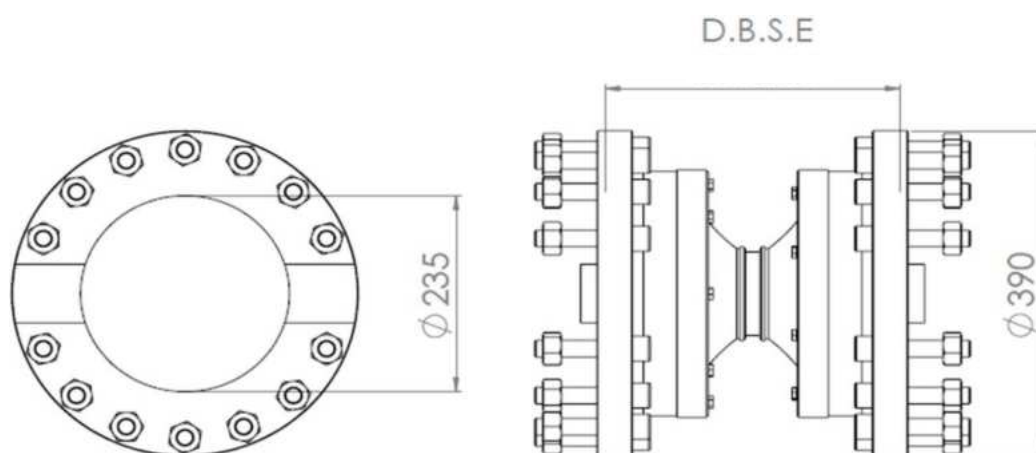
(3) Maximum rated speed.

(4) Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.

II. The coupling does not need maintenance or lubrication once installed.



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Thompson Coupling Alignment Eliminator (TCAE-V-11) Technical Specifications and Details

Continuous Torque, $T_{100}^{(4)}$	38,669 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	+/- 37 mm
L₁₀ bearing life ⁽²⁾	As per Calculation or contact Company / Distributor
Max. Service Temperature	Up to 120 °C continuous
Connection Details	Pilot-bored flanges or Taper Lock flanges
Max Swing Diameter	440 mm
Distance between Shaft Ends	335 – 425 mm Can be longer by request
Weight	137 kg (excluding flanges)
Coupling Part Number	001-401-011
Pilot Bored Flange Part Number	001-401-0113
Taper Lock Flange Part Number	001-401-0117

(1) Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours.

(2) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

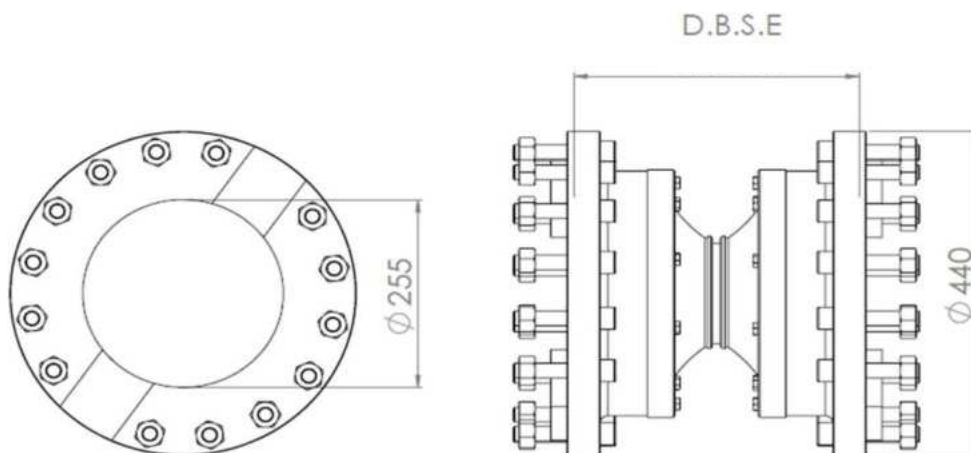
(3) Maximum rated speed.

(4) Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.

II. The coupling does not need maintenance or lubrication once installed.



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Thompson Coupling Alignment Eliminator (TCAE-V-12) Technical Specifications and Details

Continuous Torque, $T_{100}^{(4)}$	66,414 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	+/- 52 mm
L₁₀ bearing life ⁽²⁾	As per Calculation or contact Company / Distributor
Max. Service Temperature	Up to 120 °C continuous
Connection Details	Pilot-bored flanges or Taper Lock flanges
Max Swing Diameter	490 mm
Distance between Shaft Ends	500 – 600 mm Can be longer by request
Weight	181 kg (excluding flanges)
Coupling Part Number	001-401-012
Pilot Bored Flange Part Number	001-401-0123
Taper Lock Flange Part Number	001-401-0127

(1) Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours.

(2) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

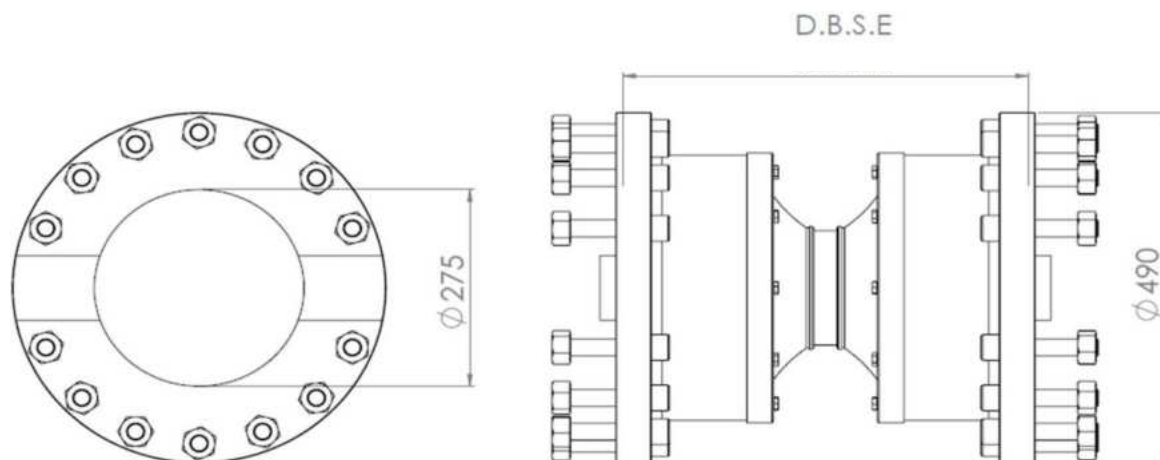
(3) Maximum rated speed.

(4) Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.

II. The coupling does not need maintenance or lubrication once installed.



Dimensions and specifications subject to change without notice – Rev 9. Amended April 2025

Thompson Coupling Alignment Eliminator (TCAE-V-13) Technical Specifications and Details

Continuous Torque, $T_{100}^{(4)}$	110,185 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	+/- 52 mm
L₁₀ bearing life ⁽²⁾	As per Calculation or contact Company / Distributor
Max. Service Temperature	Up to 120 °C continuous
Connection Details	Pilot-bored flanges or Taper Lock flanges
Max Swing Diameter	550 mm
Distance between Shaft Ends	500 – 600 mm Can be longer by request
Weight	226 kg (excluding flanges)
Coupling Part Number	001-401-013
Pilot Bored Flange Part Number	001-401-0133
Taper Lock Flange Part Number	001-401-0137

(1) Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours.

(2) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

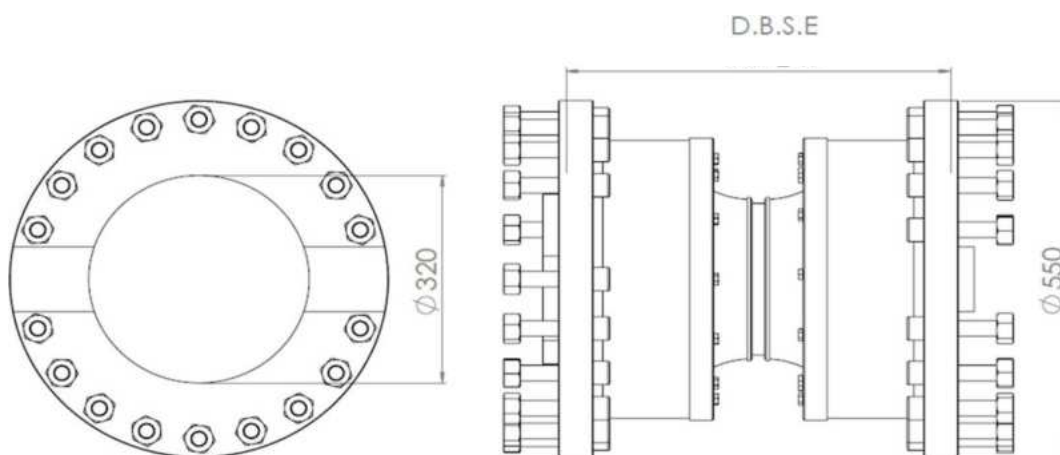
(3) Maximum rated speed.

(4) Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.

II. The coupling does not need maintenance or lubrication once installed.



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Thompson Coupling Alignment Eliminator (TCAE-V-14) Technical Specifications and Details

Continuous Torque, $T_{100}^{(4)}$	167,457 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	+/- 58 mm
L₁₀ bearing life ⁽²⁾	As per Calculation or contact Company / Distributor
Max. Service Temperature	Up to 120 °C continuous
Connection Details	Pilot-bored flanges or Taper Lock flanges
Max Swing Diameter	625 mm
Distance between Shaft Ends	600 – 660 mm Can be longer by request
Weight	274 kg (excluding flanges)
Coupling Part Number	001-401-014
Pilot Bored Flange Part Number	001-401-0143
Taper Lock Flange Part Number	001-401-0147

(1) Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours.

(2) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

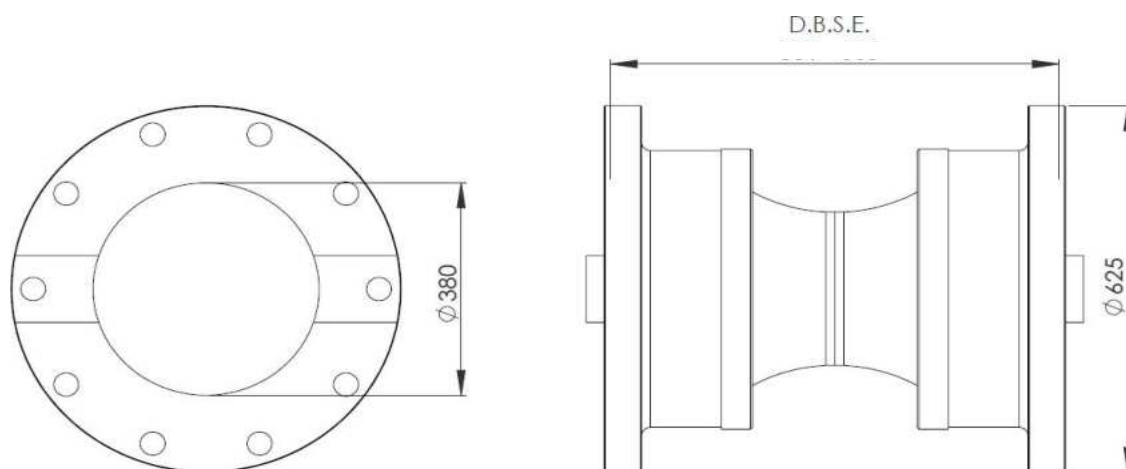
(3) Maximum rated speed.

(4) Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.

II. The coupling does not need maintenance or lubrication once installed.



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Thompson Coupling Alignment Eliminator (TCAE-R-1) Technical Specifications and Details

Continuous Torque, $T_{100}^{(3)}$	384 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	+/- 8 mm
L₁₀ bearing life ⁽²⁾	Contact us for your specific application
Max. Service Temperature	Up to 120 °C continuous
Connection Details	Keyed shaft via taper lock bush #2517. Shaft size range 16mm - 65mm (0.625" - 2.5")
Max Swing Diameter	148 mm
Distance between Shaft Ends	126 - 145 mm
Weight	6 kg (excluding QR flange weights)
Coupling Part Number	001-301-001
Pilot Bored Flange Part Number	001-301-0013
Taper Lock Flange Part Number	001-301-0017

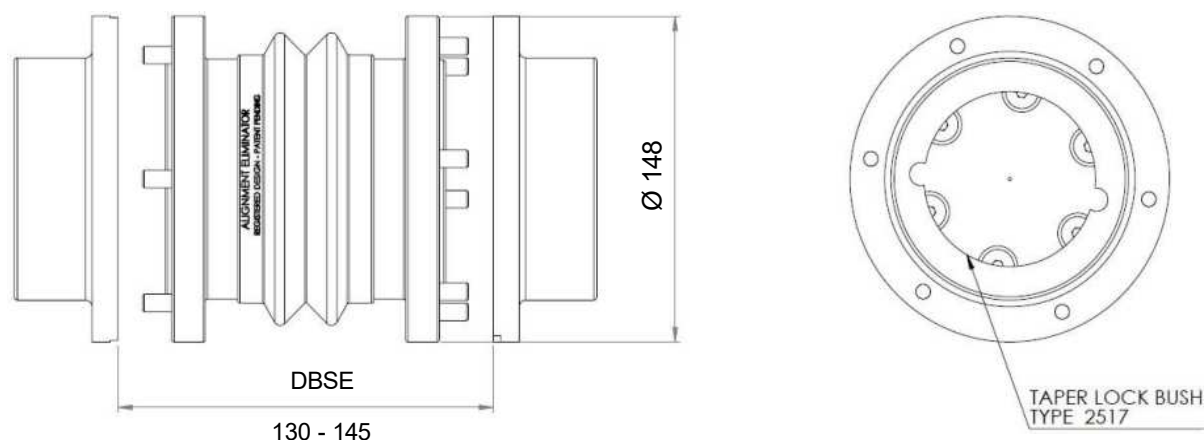
⁽¹⁾ Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours.

⁽²⁾ Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

⁽³⁾ Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

- I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.
- II. The coupling does not need maintenance or lubrication once installed.



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Thompson Coupling Alignment Eliminator (TCAE-R-2) Technical Specifications and Details

Continuous Torque, $T_{100}^{(3)}$	906 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	+/- 9 mm
L₁₀ bearing life ⁽²⁾	Contact us for your specific application
Max. Service Temperature	Up to 120 °C continuous
Connection Details	Keyed shaft via taper lock bush #2517. Shaft size range 16mm - 65mm (0.625" - 2.50")
Max Swing Diameter	178 mm
Distance between Shaft Ends	136 - 162 mm
Weight	11 kg (excluding QR flange weights)
Coupling Part Number	001-302-002
Pilot Bored Flange Part Number	001-302-0023
Taper Lock Flange Part Number	001-302-0027

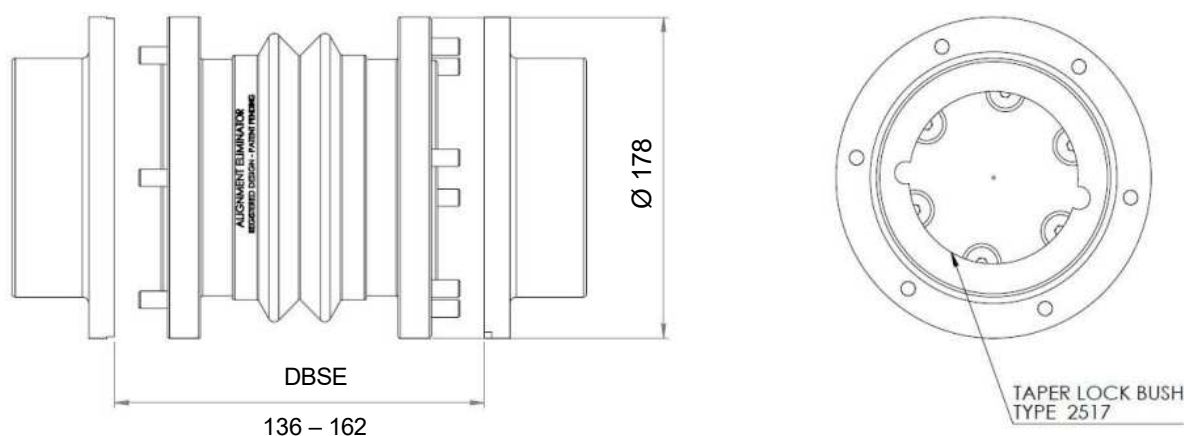
⁽¹⁾ Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours.

⁽²⁾ Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

⁽³⁾ Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

- I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.
- II. The coupling does not need maintenance or lubrication once installed.



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Thompson Coupling Alignment Eliminator (TCAE-R-3) Technical Specifications and Details

Continuous Torque, $T_{100}^{(3)}$	1,527 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	+/- 18 mm
L₁₀ bearing life ⁽²⁾	Contact us for your specific application
Max. Service Temperature	Up to 120 °C continuous
Connection Details	Keyed shaft via taper lock bush #3020. Shaft size range 25mm - 75mm (1.00" – 3.00")
Max Swing Diameter	215 mm
Distance between Shaft Ends	261 - 285 mm
Weight	21 kg (excluding QR flange weights)
Coupling Part Number	001-303-003
Pilot Bored Flange Part Number	001-303-0033
Taper Lock Flange Part Number	001-303-0037

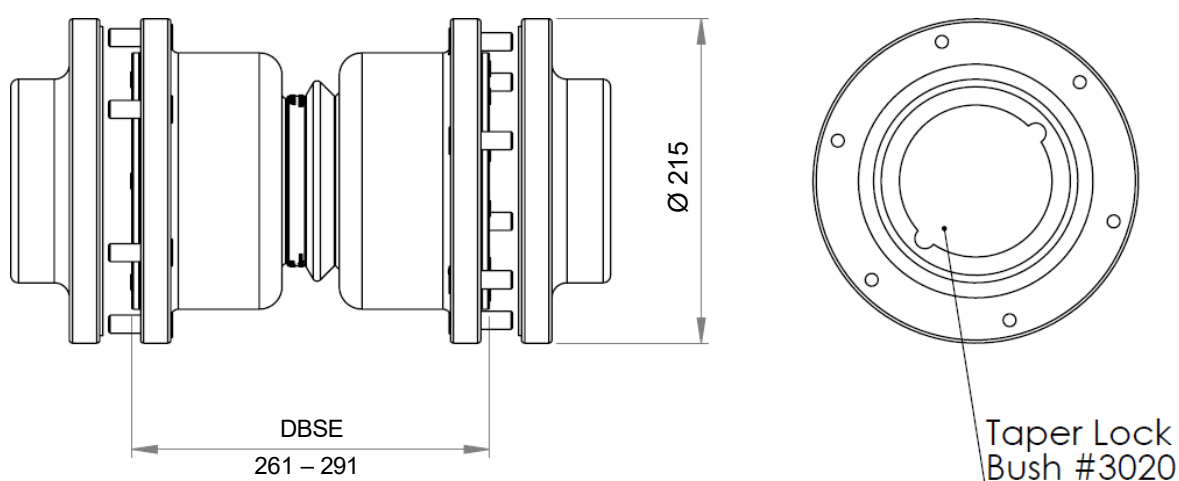
⁽¹⁾ Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours.

⁽²⁾ Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

⁽³⁾ Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

- I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.
- II. The coupling does not need maintenance or lubrication once installed.



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Thompson Coupling Alignment Eliminator (TCAE-R-4) Technical Specifications and Details

Continuous Torque, $T_{100}^{(3)}$	2,475 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	+/- 18 mm
L₁₀ bearing life ⁽²⁾	As per Calculation or contact Company / Distributor
Max. Service Temperature	Up to 120 °C continuous
Connection Details	Keyed shaft via taper lock bush #3525. Shaft size range 35mm - 100mm (1.50" - 4.00")
DIMENSION ØA	253 mm
Dimension B Nominal D.B.S.E. Range	291 - 310 mm
Weight	29 kg (excluding QR flange weights)
Coupling Part Number	001-304-004
Pilot Bored Flange Part Number	001-304-0043
Taper Lock Flange Part Number	001-304-0047

(1) Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours.

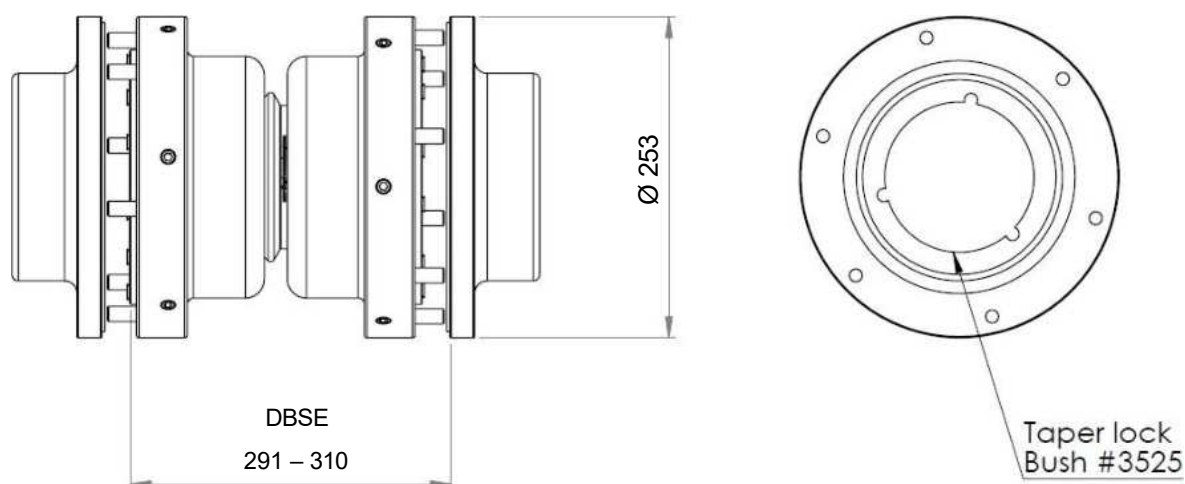
(2) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

(3) Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.

II. The coupling does not need maintenance or lubrication once installed.



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Thompson Coupling Alignment Eliminator (TCAE-R-5) Technical Specifications and Details

Continuous Torque, $T_{100}^{(3)}$	3,686 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	+/- 18 mm
L₁₀ bearing life ⁽²⁾	As per Calculation or contact Company / Distributor
Max. Service Temperature	Up to 120 °C continuous
Connection Details	Keyed shaft via taper lock bush #3525. Shaft size range 35mm-100mm (1.50" – 4.00")
DIMENSION ØA	278 mm
Dimension B Nominal D.B.S.E. Range	270 - 295 mm
Weight	40 kg (excluding QR flange weights)
Coupling Part Number	001-301-005
Pilot Bored Flange Part Number	001-301-0053
Taper Lock Flange Part Number	001-301-0057

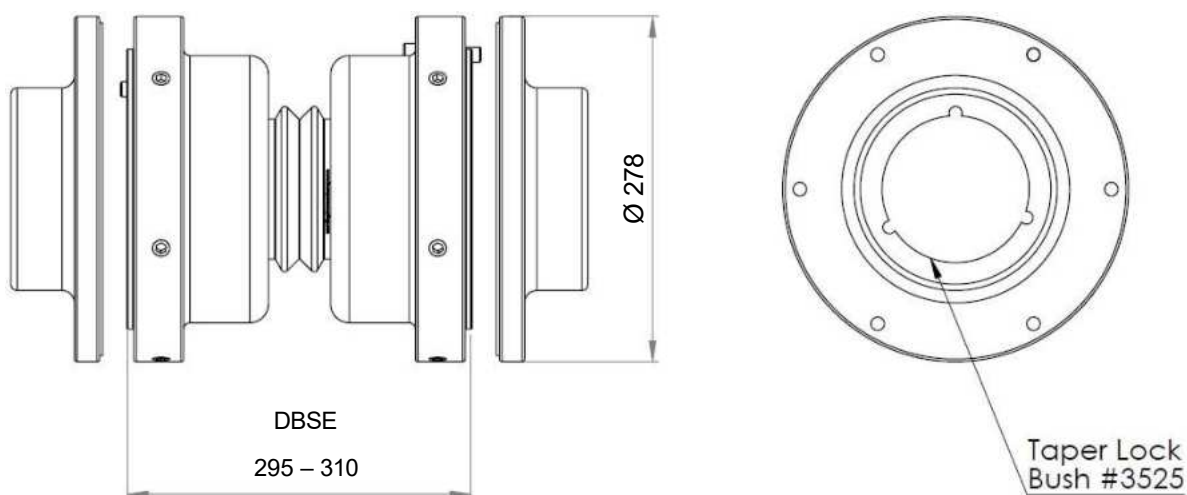
⁽¹⁾ Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours.

⁽²⁾ Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

⁽³⁾ Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

- I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.
- II. The coupling does not need maintenance or lubrication once installed.



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Thompson Coupling Alignment Eliminator (TCAE-R-6) Technical Specifications and Details

Continuous Torque, $T_{100}^{(4)}$	5,266 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	+/- 19 mm
L₁₀ bearing life ⁽²⁾	As per Calculation or contact Company / Distributor
Max. Service Temperature	Up to 120 °C continuous
Connection Details	Keyed shaft via taper lock bush #3525. Shaft size range 35mm - 100mm (1.50" - 4.00")
DIMENSION ØA	300 mm
Dimension B Nominal D.B.S.E. Range	290 - 312 mm
Weight	60 kg (excluding QR flange weights)
Coupling Part Number	001-301-006
Pilot Bored Flange Part Number	001-301-0063
Taper Lock Flange Part Number	001-301-0067

(1) Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours.

(2) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

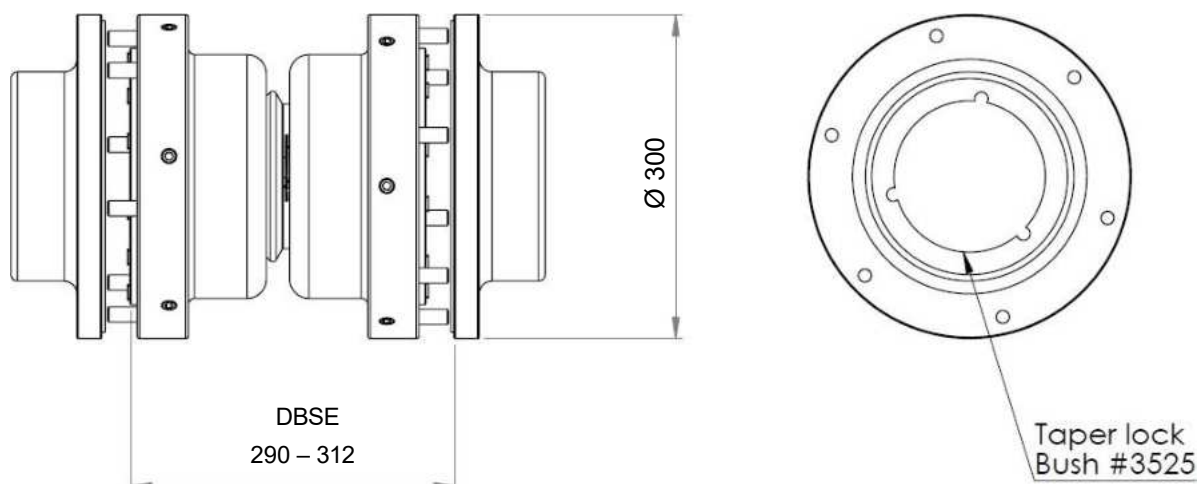
(3) Maximum rated speed.

(4) Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.

II. The coupling does not need maintenance or lubrication once installed.



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Thompson Coupling Alignment Eliminator (TCAE-R-7) Technical Specifications and Details

Continuous Torque, $T_{100}^{(4)}$	7,162 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	+/- 19 mm
L₁₀ bearing life ⁽²⁾	As per Calculation or contact Company / Distributor
Max. Service Temperature	Up to 120 °C continuous
Connection Details	Keyed shaft via taper lock bush #3525. Shaft size range 35mm - 100mm (1.50" - 4.00")
DIMENSION ØA	330 mm
Dimension B Nominal D.B.S.E. Range	304 - 320 mm
Weight	70 kg (excluding QR flange weights)
Coupling Part Number	001-301-007
Pilot Bored Flange Part Number	001-301-0073
Taper Lock Flange Part Number	001-301-0077

(1) Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours.

(2) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

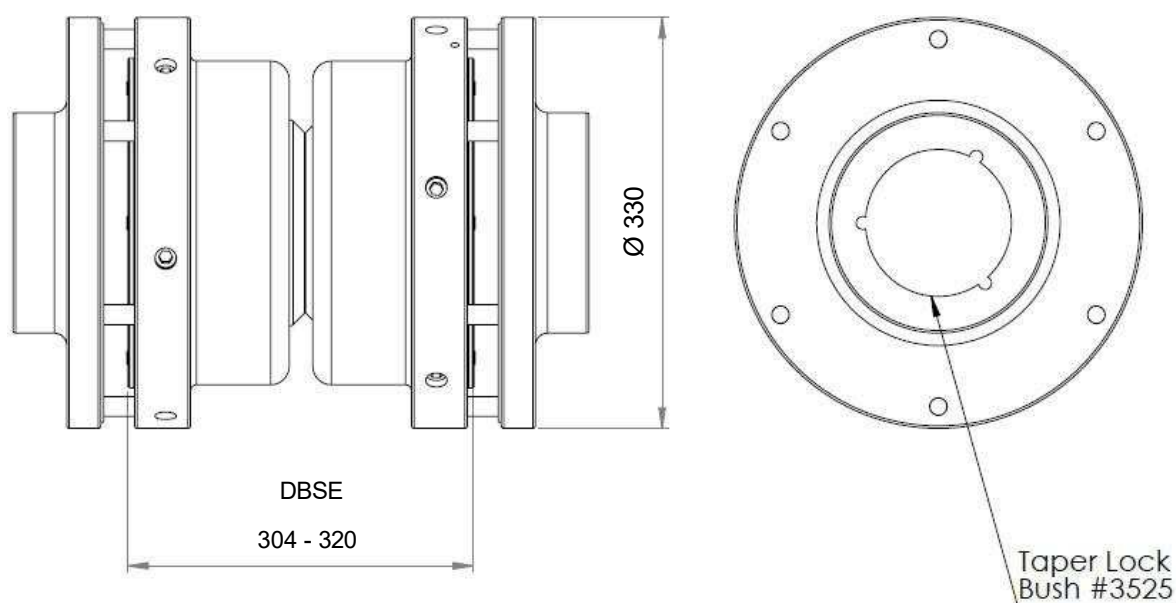
(3) Maximum rated speed.

(4) Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.

II. The coupling does not need maintenance or lubrication once installed.



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Thompson Coupling Alignment Eliminator (TCAE-R-8) Technical Specifications and Details

Continuous Torque, $T_{100}^{(4)}$	9,479 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	+/- 20 mm
L₁₀ bearing life ⁽²⁾	As per Calculation or contact Company / Distributor
Max. Service Temperature	Up to 120 °C continuous
Connection Details	Keyed shaft via taper lock bush #3525. Shaft size range 35mm - 100mm (1.50" - 4.00")
DIMENSION ØA	370 mm
Dimension B Nominal D.B.S.E. Range	320 - 327 mm
Weight	93 kg (excluding QR flange weights)
Coupling Part Number	001-301-008
Pilot Bored Flange Part Number	001-301-0083
Taper Lock Flange Part Number	001-301-0087

(1) Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours.

(2) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

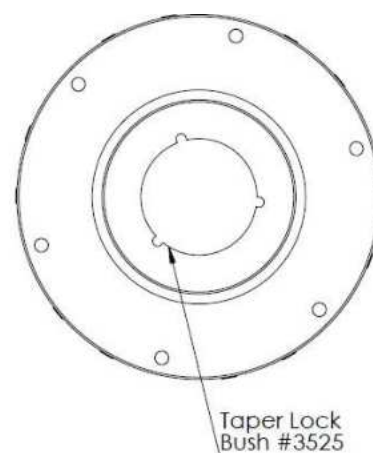
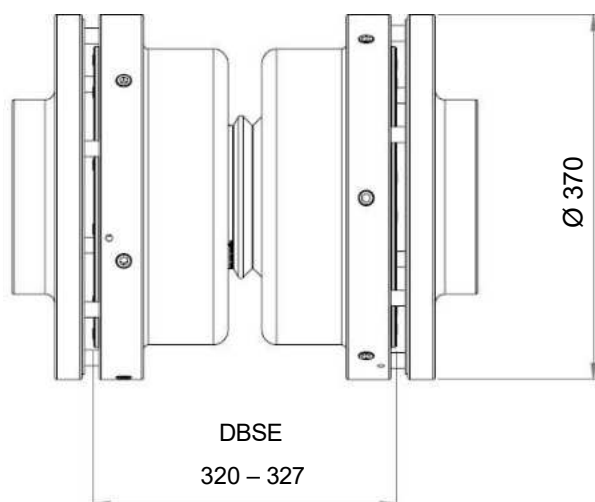
(3) Maximum rated speed.

(4) Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.

II. The coupling does not need maintenance or lubrication once installed.



Dimensions and specifications subject to change without notice – Rev 9. Amended April 2025

TCAE - E SERIES : SPECIFICATIONS

PARAMETERS		UNIT	TCAE-E-1	TCAE-E-2	TCAE-E-3	TCAE-E-4	TCAE-E-5	TCAE-E-6	TCAE-E-7
CONTINUOUS TORQUE, T_{100}^*		N.m	408	826	1,443	2,243	3,686	3,823	5,898
NOMINAL POWER CAP AT: (Based on machine service factor of 1.25 misaligned angle of 1 degree and service life of 7,200 hours)	1000 RPM	kW	43	86	151	235	386	400	618
	1500 RPM	kW	64	130	227	352	580	600	926
	MAX RPM	kW	3,000 rpm 128 kW	3,000 rpm 260 kW	3,000 rpm 453 kW	3,000 rpm 704 kW	3,000 rpm 1160 kW	2,200 rpm 880 kW	2,200rpm 1,360 kW
MAXIMUM MISALIGNMENT ANGLE		Degree	10 °	10 °	10 °	10 °	10 °	10 °	10 °
MAXIMUM PARALLEL SHAFT OFFSET		mm	DEPENDANT ON CUSTOMER LENGTH						
MAXIMUM SERVICE TEMPERATURE		°C	120	120	120	120	120	120	120
SERVICE LIFE		AS PER CUSTOMER APPLICATION							
DIMENSION ØA		mm	152	179	215	236	270	244	272
DIMENSION L (MINIMUM)		mm	150	170	175	210	240	260	300
DIMENSION L (MAXIMUM)		mm	2000	2000	2000	2000	2000	2000	2000
DIMENSION C FLANGE LENGTH		mm	42	44.5	50.8	108	127	TO ORDER	
MAXIMUM AXIAL EXPANSION		± mm	16	20	24	27	29	29	30
BORE SIZE øA	mm		30	40	50	55	60	65	65
	inch		1.125	1.5	2	2.25	2.375	2.5	2.5
	KEY		8x7	12x8	14x9	16x10	18x11	18x11	18x11



PARAMETERS		UNIT	TCAE-E-8	TCAE-E-9	TCAE-E-10	TCAE-E-11	TCAE-E-12	TCAE-E-13	TCAE-E-14
CONTINUOUS TORQUE, T_{100}^*		N.m	7,741	12,217	18,115	25,909	35,598	47,604	66,983
NOMINAL POWER CAP AT: (Based on machine service factor of 1.25 misaligned angle of 1 degree and service life of 7,200 hours)	1000 RPM	kW	810	1,280	1,900	2,710	3,730	4,985	
	1500 RPM	kW	1216	1,920					
	MAX RPM	kW	2,200 rpm 1,784 kW	2,000 rpm 2,560 kW	1,500 rpm 2,850 kW	1,400 rpm 3,800 kW	1,200 rpm 4,473 kW	1,000 rpm 4,985 kW	800 rpm 7,015 kW
MAXIMUM MISALIGNMENT		Degree	10 °	10 °	10 °	10 °	10 °	10 °	10 °
MAXIMUM PARALLEL SHAFT OFFSET		AS PER CUSTOMER LENGTH							
MAXIMUM SERVICE TEMPERATURE		°C	120	120	120	120	120	120	120
SERVICE LIFE		AS PER CUSTOMER APPLICATION							
DIMENSION ØA		mm	292	336	376	420	462	504	580
DIMENSION L (MINIMUM)		mm	420	460	560	550	600	600	650
DIMENSION L (MAXIMUM)		mm	2000	2000	2000	2000	2000	2000	2000
DIMENSION C FLANGE LENGTH		mm	TO ORDER						
MAXIMUM AXIAL EXPANSION		1650	35	40	40	44	46	50	50
BORE SIZE øA	mm		30	40	50	55	60	65	65
	inch		3.25	4.25	5.0	5.0	6.0	6.5	8.0
	KEY		22x14	28x16	32x18	32x19	36x20	40x22	45x25

* continuous torque, t_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine but service factor of 1 will give 3 years continuous service life.

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Thompson Coupling Alignment Eliminator (TCAE-E-1) Technical Specifications and Details

Continuous Torque, $T_{100}^{(4)}$	408 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	Dependent on shaft length
L₁₀ bearing life ⁽²⁾	As Per Customer Application
Max. Service Temperature	120 °C continuous
Connection Details	Keyed shaft via taper lock bush #1615. Shaft size range 16mm - 65mm (0.625" - 2.5")
AXIAL EXPANSION	± 16 mm
DIMENSION ϕA	152 mm
DIMENSION L	150 mm Min to 2000 mm Max
Weight	Dependent on customer application by shaft length
Coupling Part Number	001-501-001
Pilot Bored Flange Part Number	001-501-0013
Taper Lock Flange Part Number	001-501-0017

(1) Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours.

(2) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

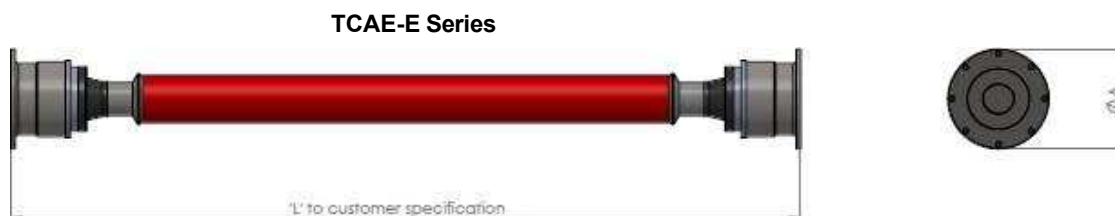
(3) Maximum power cap. subject to shaft length.

(4) Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.

II. The coupling does not need maintenance or lubrication once installed.



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Thompson Coupling Alignment Eliminator (TCAE-E-2)

Technical Specifications and Details

Continuous Torque, $T_{100}^{(4)}$	826 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	Dependent on shaft length
L₁₀ bearing life ⁽²⁾	As per Calculation or contact Company / Distributor
Max. Service Temperature	Up to 120 °C continuous
Connection Details	Keyed shaft via taper lock bush #2517. Shaft size range 16mm - 65mm (0.625" - 2.50")
Axial Expansion	± 20 mm
DIMENSION ϕA	179 mm
DIMENSION L	170 mm Min to 2000 mm Maximum
Weight	Dependent on customer application by shaft length
Coupling Part Number	001-501-002
Pilot Bored Flange Part Number	001-501-0023
Taper Lock Flange Part Number	001-501-0027

(1) Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours.

(2) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

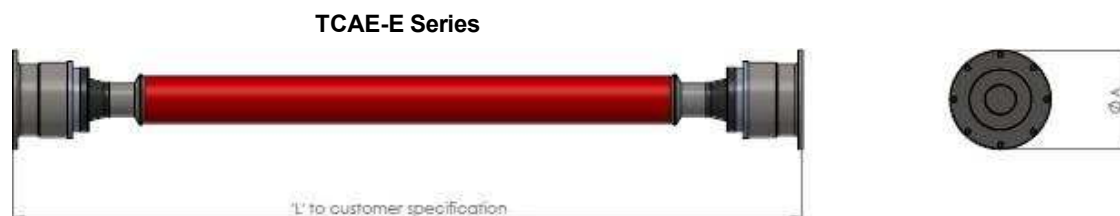
(3) Maximum power cap. subject to shaft length.

(4) Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.

II. The coupling does not need maintenance or lubrication once installed.



Dimensions and specifications subject to change without notice – Rev 9. Amended April 2025

Thompson Coupling Alignment Eliminator (TCAE-E-3) Technical Specifications and Details

Continuous Torque, $T_{100}^{(4)}$	1,443 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	Dependent on shaft length
L₁₀ bearing life ⁽²⁾	As per Calculation or contact Company / Distributor
Max. Service Temperature	Up to 120 °C continuous
Connection Details	Keyed shaft via taper lock bush #3020. Shaft size range 25mm - 75mm (1.00" – 3.00")
Axial Expansion	± 24 mm
DIMENSION ϕA	215 mm
DIMENSION L	175 mm Min to 2000 mm Maximum
Weight	Dependent on customer application by shaft length
Coupling Part Number	001-501-003
Pilot Bored Flange Part Number	001-501-0033
Taper Lock Flange Part Number	001-501-0037

(1) Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours.

(2) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

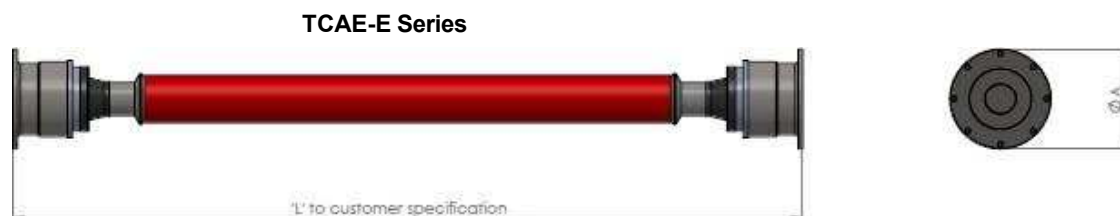
(3) Maximum power cap. subject to shaft length.

(4) Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.

II. The coupling does not need maintenance or lubrication once installed.



Dimensions and specifications subject to change without notice – Rev 9. Amended April 2025

Thompson Coupling Alignment Eliminator (TCAE-E-4) Technical Specifications and Details

Continuous Torque, $T_{100}^{(4)}$	2,243 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	Dependent on shaft length
L₁₀ bearing life ⁽²⁾	As per Calculation or contact Company / Distributor
Max. Service Temperature	Up to 120 °C continuous
Axial expansion	+/- 12 mm
Connection Details	Keyed shaft via taper lock bush #3525. Shaft size range 35mm - 100mm (1.50" - 4.00")
Axial Expansion	± 27mm
DIMENSION ØA	236 mm
DIMENSION L	210 mm Min to 2000 mm Max
Weight	Dependent on customer application by shaft length
Coupling Part Number	001-501-004
Pilot Bored Flange Part Number	001-501-0043
Taper Lock Flange Part Number	001-501-0047

(1) Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours.

(2) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

(3) Maximum power cap. subject to shaft length.

(4) Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.

II. The coupling does not need maintenance or lubrication once installed.

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Dimensions and specifications subject to change without notice – Rev 9. Amended April 2025

Thompson Coupling Alignment Eliminator (TCAE-E-5) Technical Specifications and Details

Continuous Torque, $T_{100}^{(4)}$	3,686 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	Dependent on shaft length
L₁₀ bearing life ⁽²⁾	As per Calculation or contact Company / Distributor
Max. Service Temperature	Up to 120 °C continuous
Connection Details	Keyed shaft via taper lock bush #3525. Shaft size range 35mm-100mm (1.50" – 4.00")
Axial Expansion	± 29 mm
DIMENSION ϕA	270 mm
DIMENSION L	240 mm Min to 2000 mm Max
Weight	Dependent on customer application by shaft length
Coupling Part Number	001-501-005
Pilot Bored Flange Part Number	001-501-0053
Taper Lock Flange Part Number	001-501-0057

(1) Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours.

(2) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

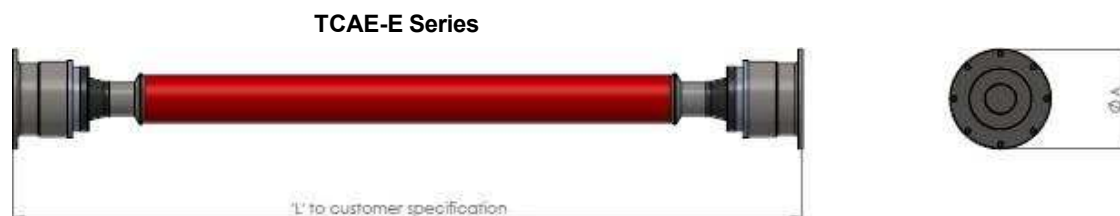
(3) Maximum power cap. subject to shaft length.

(4) Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.

II. The coupling does not need maintenance or lubrication once installed.



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Thompson Coupling Alignment Eliminator (TCAE-E-6) Technical Specifications and Details

Continuous Torque, $T_{100}^{(5)}$	3,823 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	Dependent on shaft length
L₁₀ bearing life ⁽²⁾	As per Calculation or contact Company / Distributor
Max. Service Temperature	Up to 120 °C continuous
Connection Details	Keyed shaft via taper lock bush #3525. Shaft size range 35mm - 100mm (1.50" - 4.00")
Axial Expansion	± 29 mm
DIMENSION ϕA	244 mm
DIMENSION L	260 mm Min to 2000 mm Max
Weight	Dependent on customer application by shaft length
Coupling Part Number	001-501-006
Pilot Bored Flange Part Number	001-501-0063
Taper Lock Flange Part Number	001-501-0067

(1) Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours.

(2) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

(3) Maximum rated speed.

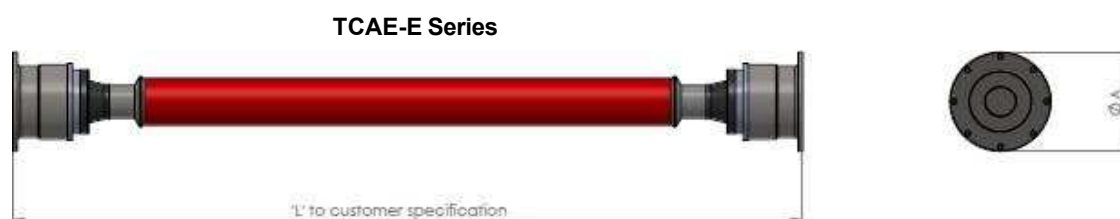
(4) Maximum power cap. subject to shaft length.

(5) Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.

II. The coupling does not need maintenance or lubrication once installed.



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Thompson Coupling Alignment Eliminator (TCAE-E-7) Technical Specifications and Details

Continuous Torque, $T_{100}^{(5)}$	5,898 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	Dependent on shaft length
L₁₀ bearing life ⁽²⁾	As per Calculation or contact Company / Distributor
Max. Service Temperature	Up to 120 °C continuous
Connection Details	Keyed shaft via taper lock bush #3525. Shaft size range 35mm - 100mm (1.50" - 4.00")
Axial Expansion	± 30 mm
DIMENSION ϕA	272 mm
DIMENSION L	300 mm Min to 2000 mm Max
Weight	Dependent on customer application by shaft length
Coupling Part Number	001-501-007
Pilot Bored Flange Part Number	001-501-0073
Taper Lock Flange Part Number	001-501-0077

(1) Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours.

(2) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

(3) Maximum rated speed.

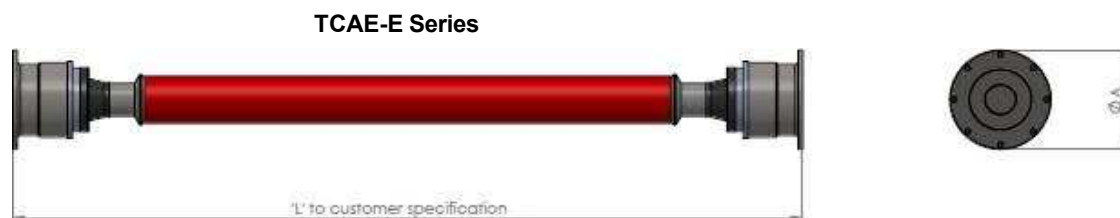
(4) Maximum power cap. subject to shaft length.

(5) Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.

II. The coupling does not need maintenance or lubrication once installed.



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Thompson Coupling Alignment Eliminator (TCAE-E-8) Technical Specifications and Details

Continuous Torque, $T_{100}^{(5)}$	7,741 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	Dependent on shaft length
L₁₀ bearing life ⁽²⁾	As per Calculation or contact Company / Distributor
Max. Service Temperature	Up to 120 °C continuous
Connection Details	Keyed shaft via taper lock bush #3525. Shaft size range 35mm - 100mm (1.50" - 4.00")
Axial Expansion	± 35 mm
DIMENSION ϕA	292 mm
DIMENSION L	420 mm Min to 2000 mm Max
Weight	Dependent on customer application by shaft length
Coupling Part Number	001-501-008
Pilot Bored Flange Part Number	001-501-0083
Taper Lock Flange Part Number	001-501-0087

(1) Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours.

(2) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

(3) Maximum rated speed.

(4) Maximum power cap. subject to shaft length.

(5) Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.

II. The coupling does not need maintenance or lubrication once installed.



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Thompson Coupling Alignment Eliminator (TCAE-E-9) Technical Specifications and Details

Continuous Torque, $T_{100}^{(5)}$	12,217 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	Dependent on shaft length
L₁₀ bearing life ⁽²⁾	As per Calculation or contact Company / Distributor
Max. Service Temperature	Up to 120 °C
Connection Details	336 mm flange to suit
Axial Expansion	± 40 mm
DIMENSION øA	336 mm
DIMENSION L	460 mm Min to 2000 mm Max
Weight	Dependent on customer application by shaft length
Coupling Part Number	001-501-009
Pilot Bored Flange Part Number	001-501-0093
Taper Lock Flange Part Number	001-501-0097

(1) Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours.

(2) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

(3) Maximum rated speed.

(4) Maximum power cap. subject to shaft length.

(5) Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

- I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.
- II. The coupling requires low maintenance and lubrication once installed.

TCAE-E Series



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Thompson Coupling Alignment Eliminator (TCAE-E-10) Technical Specifications and Details

Continuous Torque, $T_{100}^{(5)}$	18,115 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	Dependent on shaft length
L₁₀ bearing life ⁽²⁾	As per Calculation or contact Company / Distributor
Max. Service Temperature	Up to 120 °C
Connection Details	376 mm flange
Axial Expansion	± 40 mm
DIMENSION øA	376 mm
DIMENSION L	560 mm Min to 2000 mm Max
Weight	Dependent on customer application by shaft length
Coupling Part Number	001-501-010
Pilot Bored Flange Part Number	001-501-0103
Taper Lock Flange Part Number	001-501-0107

(1) Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours.

(2) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

(3) Maximum rated speed.

(4) Maximum power cap. subject to shaft length.

(5) Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

- I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.
- II. The coupling requires low maintenance and lubrication once installed.

TCAE-E Series



Dimensions and specifications subject to change without notice – Rev 9. Amended April 2025

Thompson Coupling Alignment Eliminator (TCAE-E-11) Technical Specifications and Details

Continuous Torque, $T_{100}^{(5)}$	25,909 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	Dependent on shaft length
L₁₀ bearing life ⁽²⁾	As per Calculation or contact Company / Distributor
Max. Service Temperature	Up to 120 °C
Connection Details	420 mm flange
Axial Expansion	± 44 mm
DIMENSION ϕA	420 mm
DIMENSION L	550 mm Min to 2000 mm Max
Weight	Dependent on customer application by shaft length
Coupling Part Number	001-501-011
Pilot Bored Flange Part Number	001-501-0113
Taper Lock Flange Part Number	001-501-0117

⁽¹⁾ Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours.

⁽²⁾ Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

⁽³⁾ Maximum rated speed.

⁽⁴⁾ Maximum power cap. subject to shaft length.

⁽⁵⁾ Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.

II. The coupling requires low maintenance and lubrication once installed.

TCAE-E Series



Dimensions and specifications subject to change without notice – Rev 9. Amended April 2025

Thompson Coupling Alignment Eliminator (TCAE-E-12) Technical Specifications and Details

Continuous Torque, $T_{100}^{(5)}$	35,598 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	Dependent on shaft length
L₁₀ bearing life ⁽²⁾	As per Calculation or contact Company / Distributor
Max. Service Temperature	Up to 120 °C
Connection Details	462 mm flange
Axial Expansion	± 46 mm
DIMENSION øA	462 mm
DIMENSION L	600 mm Min to 2000 mm Max
Weight	Dependent on customer application by shaft length
Coupling Part Number	001-501-012
Pilot Bored Flange Part Number	001-501-0123
Taper Lock Flange Part Number	001-501-0127

(1) Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours.

(2) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

(3) Maximum rated speed.

(4) Maximum power cap. subject to shaft length.

(5) Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

- I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.
- II. The coupling requires low maintenance and lubrication once installed.

TCAE-E Series



Dimensions and specifications subject to change without notice – Rev 9. Amended April 2025

Thompson Coupling Alignment Eliminator (TCAE-E-13) Technical Specifications and Details

Continuous Torque, $T_{100}^{(5)}$	47,604 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	Dependent on shaft length
L₁₀ bearing life ⁽²⁾	As per Calculation or contact Company / Distributor
Max. Service Temperature	Up to 120 °C
Connection Details	504 mm flange
Axial Expansion	± 50 mm
DIMENSION ϕA	504 mm
DIMENSION L	600 mm Min to 2000 mm Max
Weight	Dependent on customer application by shaft length
Coupling Part Number	001-501-013
Pilot Bored Flange Part Number	001-501-0133
Taper Lock Flange Part Number	001-501-0137

(1) Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours.

(2) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

(3) Maximum rated speed.

(4) Maximum power cap. subject to shaft length.

(5) Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

- I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.
- II. The coupling requires low maintenance and lubrication once installed.

TCAE-E Series



Dimensions and specifications subject to change without notice – Rev 9. Amended April 2025

Thompson Coupling Alignment Eliminator (TCAE-E-14)

Technical Specifications and Details

Continuous Torque, $T_{100}^{(5)}$	66,983 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	Dependent on shaft length
L₁₀ bearing life ⁽²⁾	As per Calculation or contact Company / Distributor
Max. Service Temperature	Up to 120 °C
Axial expansion	+/- 50 mm
Connection Details	580 mm flange
Axial Expansion	± 50 mm
DIMENSION ϕA	580 mm
DIMENSION L	650 mm Min to 2000 mm Max
Weight	Dependent on customer application by shaft length
Coupling Part Number	001-501-014
Pilot Bored Flange Part Number	001-501-0143
Taper Lock Flange Part Number	001-501-0147

(1) Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours.

(2) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

(3) Maximum rated speed.

(4) Maximum power cap. subject to shaft length.

(5) Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

- I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.
- II. The coupling requires low maintenance and lubrication once installed.

TCAE-E Series



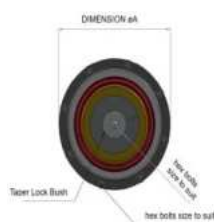
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TCAE-ST SERIES: SPECIFICATIONS

PARAMETERS	UNIT	TCAE- ST-1	TCAE- ST-2	TCAE- ST-3	TCAE- ST-4	TCAE- ST-5	TCAE- ST-6	TCAE- ST-7
CONTINUOUS TORQUE, T100	N.m	408	826	1,443	CHECK WITH THOMPSON COUPLINGS OR DISTRIBUTOR		3,823	CHECK WITH THOMPSON COUPLINGS OR DISTRIBUTOR
NOMINAL POWER CAP AT: (Based on 1500 RPM, machine service factor of 1.25 and service life of 7,200 hours)	1000 RPM	kW***	43	86			400	
	1500 RPM	kW***	64	130			600	
	MAX RPM	kW***	3,000 rpm 128 kW	3,000 rpm 260 kW			2,200 rpm 880 kW	
MAXIMUM MISALIGNMENT	DEGREE	10 °	10 °	10 °			10 °	
MAXIMUM SERVICE	°C	120	120	120			120	
SERVICE LIFE	AS PER CUSTOMER APPLICATION							
DIMENSION øA	mm	152	180	225			260	
DIMENSION L (DBSE) mm ****can be reduced****		6 - 43	8 - 32	8 - 30			10 - 36	
BORE SIZE	mm	42	50	75			100	



ST COUPLING



PARAMETERS	UNIT	TCAE- ST-8	TCAE- ST-9	TCAE- ST-10	TCAE- ST-11	TCAE- ST-12	TCAE- ST-13	TCAE- ST-14
CONTINUOUS TORQUE, T100	N.m	7,741	CHECK WITH THOMPSON COUPLINGS OR DISTRIBUTOR	18,115	CHECK WITH THOMPSON COUPLINGS OR DISTRIBUTOR	35,598	CHECK WITH THOMPSON COUPLINGS OR DISTRIBUTOR	CHECK WITH THOMPSON COUPLINGS OR DISTRIBUTOR
NOMINAL POWER CAP AT: (Based on 1500 RPM, machine service factor of 1.25 and service life of 7,200 hours)	1000 RPM	kW***		1,900		3,730		
	1500 RPM	kW***						
	MAX RPM	kW***		1,500 rpm 2,850 kW		1,200 rpm 4,473 kW		
MAXIMUM MISALIGNMENT	DEGREE	10 °		10 °		10 °		
MAXIMUM SERVICE	°C	120		120		120		
SERVICE LIFE	AS PER CUSTOMER APPLICATION							
DIMENSION øA	mm	320		450		560		
DIMENSION L (DBSE) mm	mm	12 - 42		12 - 128		15 - 160		
BORE SIZE	mm	110		150		200		

* continuous torque, t100 is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine but service factor of 1 will give 3 years continuous service life.

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Thompson Coupling Alignment Eliminator (TCAE-ST-1) Technical Specifications and Details

Continuous Torque, $T_{100}^{(4)}$	408 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	4 mm
L₁₀ bearing life ⁽²⁾	As per Calculation or contact Company / Distributor
Max. Service Temperature	Up to 120 °C continuous
Connection Details	Keyed shaft via taper lock bush #1615. Shaft size range 16mm - 65mm (0.625" - 2.5")
DIMENSION ϕA	152 mm
Min DBSE & Max Axial Expansion	Min 6 mm & Max Axial Expansion 43 mm
Dimension L	104 mm
Bore Size	42 mm
Weight	6 kg
Coupling Part Number	001701001

(1) Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours.

(2) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

(3) Maximum power cap. subject to shaft length.

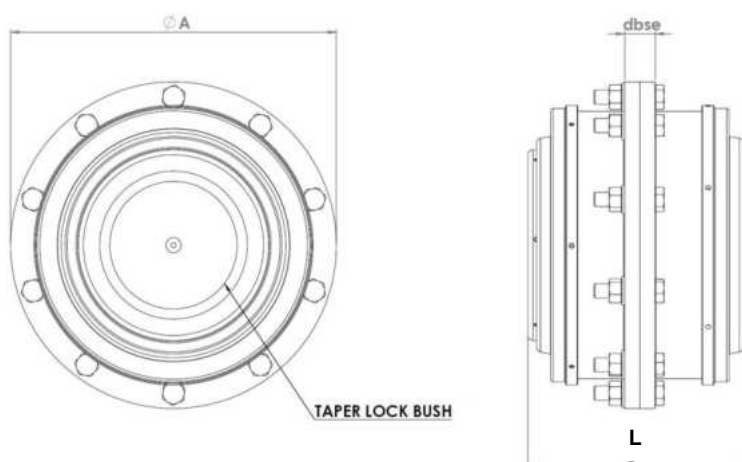
(4) Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.

II. The coupling does not need maintenance or lubrication once installed.

TCAE-ST Series



Dimensions and specifications subject to change without notice – Rev 9. Amended April 2025

Thompson Coupling Alignment Eliminator (TCAE-ST-2) Technical Specifications and Details

Continuous Torque, $T_{100}^{(4)}$	826 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	5 mm
L₁₀ bearing life ⁽²⁾	As per Calculation or contact Company / Distributor
Max. Service Temperature	Up to 120 °C continuous
Connection Details	Keyed shaft via taper lock bush #2012. Shaft size range 16mm - 65mm (0.625" - 2.5")
DIMENSION ϕA	180 mm
Min DBSE & Max Axial Expansion	Min 8 mm & Max Axial Expansion 32 mm
Dimension L	105 mm
Bore Size	50 mm
Weight	8 kg
Coupling Part Number	001701002

(1) Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours.

(2) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

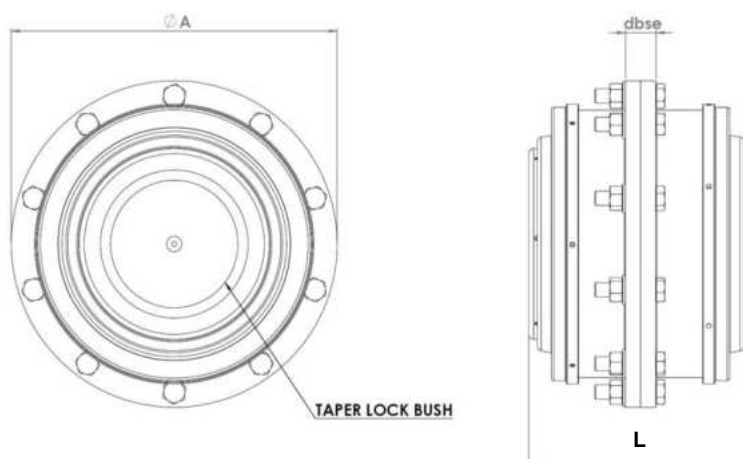
(3) Maximum power cap. subject to shaft length.

(4) Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

- I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.
- II. The coupling does not need maintenance or lubrication once installed.

TCAE-ST Series



Dimensions and specifications subject to change without notice – Rev 9. Amended April 2025

Thompson Coupling Alignment Eliminator (TCAE-ST-3) Technical Specifications and Details

Continuous Torque, $T_{100}^{(4)}$	1,443 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	+/- 6 mm
L₁₀ bearing life ⁽²⁾	As per Calculation or contact Company / Distributor
Max. Service Temperature	Up to 120 °C continuous
Connection Details	Keyed shaft via taper lock bush #3020
DIMENSION $\varnothing A$	225 mm
Min DBSE & Max Axial Expansion	Min 8 mm & Max Axial Expansion 30 mm
Dimension L	112 mm
Bore Size	75 mm
Weight	12 kg
Coupling Part Number	001701003

(1) Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours.

(2) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

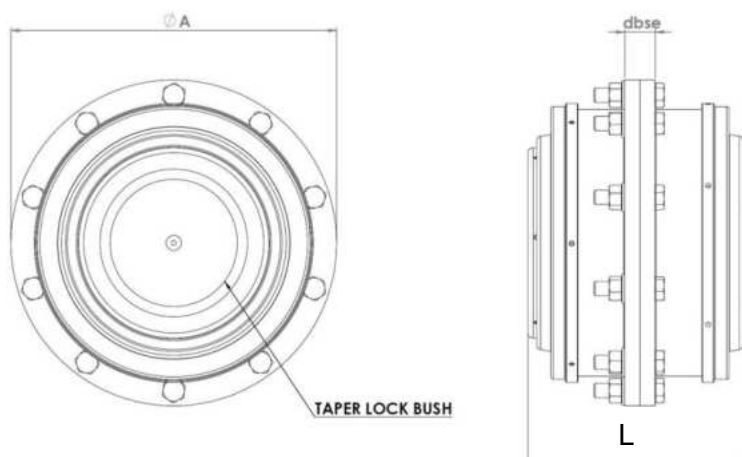
(3) Maximum rated speed.

(4) Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

- I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.
- II. The coupling does not need maintenance or lubrication once installed.

TCAE-ST Series



Dimensions and specifications subject to change without notice – Rev 9. Amended April 2025

Thompson Coupling Alignment Eliminator (TCAE-ST-6) Technical Specifications and Details

Continuous Torque, $T_{100}^{(5)}$	3,823 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	+/- 7mm
L₁₀ bearing life ⁽²⁾	As per Calculation or contact Company / Distributor
Max. Service Temperature	Up to 120 °C continuous
Connection Details	Keyed shaft via taper lock bush #3525.
DIMENSION ϕA	260 mm
Min DBSE & Max Axial Expansion	Min 10 mm & Max Axial Expansion 36 mm
Dimension L	140 mm
Bore Size	100 mm
Weight	24 kg
Coupling Part Number	001701006

(1) Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours.

(2) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

(3) Maximum rated speed.

(4) Maximum power cap. subject to shaft length.

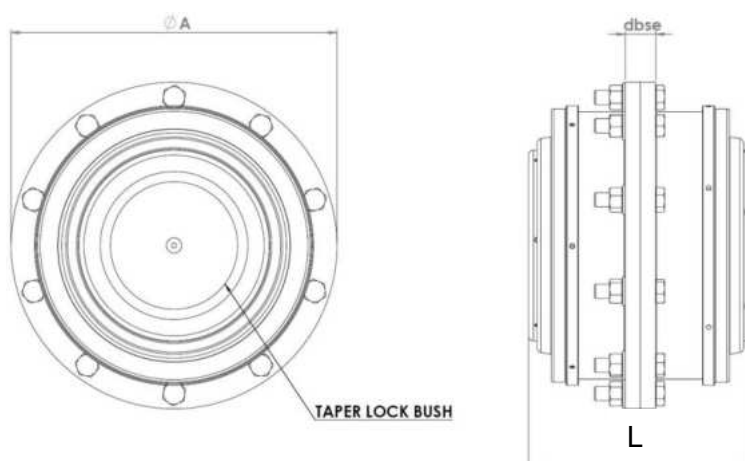
(5) Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.

II. The coupling does not need maintenance or lubrication once installed.

TCAE-ST Series



Dimensions and specifications subject to change without notice – Rev 9. Amended April 2025

Thompson Coupling Alignment Eliminator (TCAE-ST-8) Technical Specifications and Details

Continuous Torque, $T_{100}^{(4)}$	7,741 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	+/- 8 mm
L_{10} bearing life ⁽²⁾	As per Calculation or contact Company / Distributor
Max. Service Temperature	Up to 120 °C continuous
Connection Details	Keyed shaft via taper lock bush #4535
DIMENSION ϕA	320 mm
Min DBSE & Max Axial Expansion	Min 12 mm & Max Axial Expansion 42 mm
Dimension L	177 mm
Bore Size	110 mm
Weight	44 kg
Coupling Part Number	001701008

⁽¹⁾ Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours.

⁽²⁾ Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

⁽³⁾ Maximum rated speed.

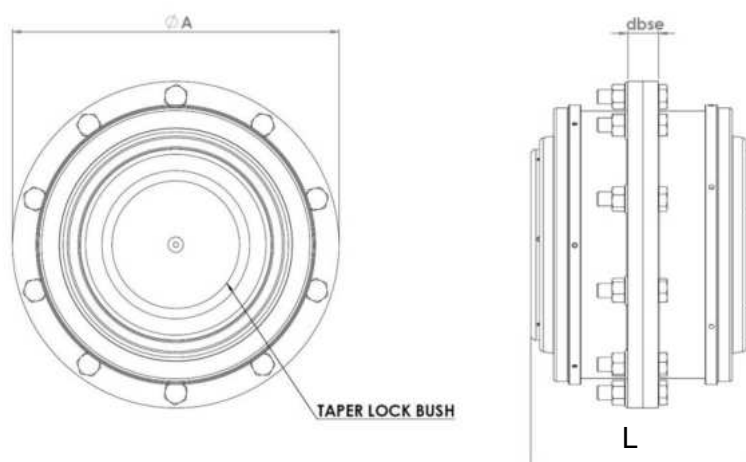
⁽⁴⁾ Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.

II. The coupling does not need maintenance or lubrication once installed.

TCAE-ST Series



Dimensions and specifications subject to change without notice – Rev 9. Amended April 2025

Thompson Coupling Alignment Eliminator (TCAE-ST-10) Technical Specifications and Details

Continuous Torque, $T_{100}^{(4)}$	18,115 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	+/- 14 mm
L₁₀ bearing life ⁽²⁾	As per Calculation or contact Company / Distributor
Max. Service Temperature	Up to 120 °C continuous
Connection Details	Keyed shaft via taper lock bush #6050
DIMENSION ϕA	450 mm
Min DBSE & Max Axial Expansion	Min 12 mm & Max Axial Expansion 128 mm
Dimension L	317 mm
Bore Size	150 mm
Weight	122 kg
Coupling Part Number	001701010

⁽¹⁾ Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours

⁽²⁾ Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

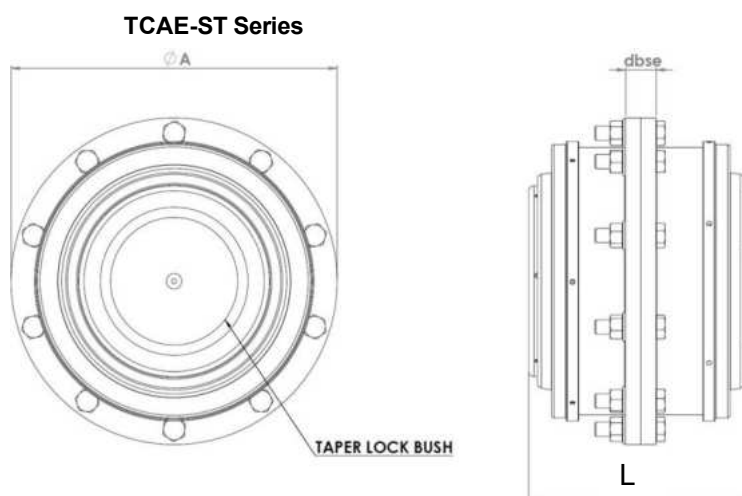
⁽³⁾ Maximum rated speed.

⁽⁴⁾ Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.

II. The coupling does not need maintenance or lubrication once installed.



Dimensions and specifications subject to change without notice – Rev 9. Amended April 2025

Thompson Coupling Alignment Eliminator (TCAE-ST-12) Technical Specifications and Details

Continuous Torque, $T_{100}^{(4)}$	35,598 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	+/- 17 mm
L₁₀ bearing life ⁽²⁾	As per Calculation or contact Company / Distributor
Max. Service Temperature	Up to 120 °C continuous
Connection Details	Keyed shaft via taper lock bush #8065
DIMENSION ϕA	560 mm
Min DBSE & Max Axial Expansion	Min 15 mm & Max Axial Expansion 160 mm
Dimension L	384 mm
Bore Size	200 mm
Weight	250 kg
Coupling Part Number	001701012

⁽¹⁾ Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours

⁽²⁾ Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

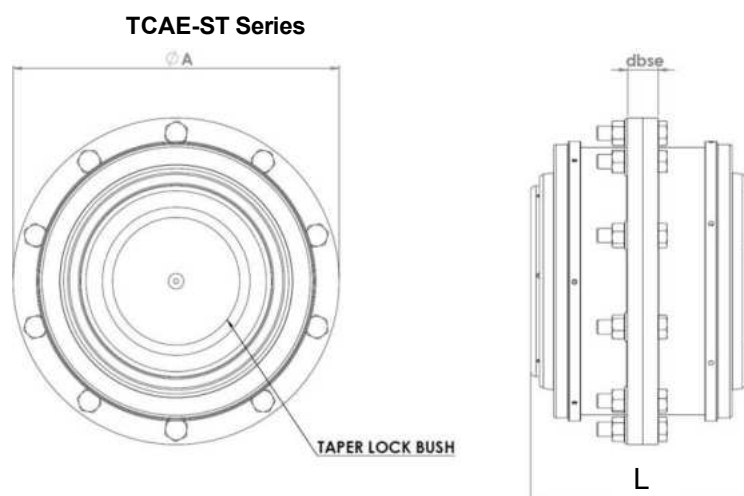
⁽³⁾ Maximum rated speed.

⁽⁴⁾ Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

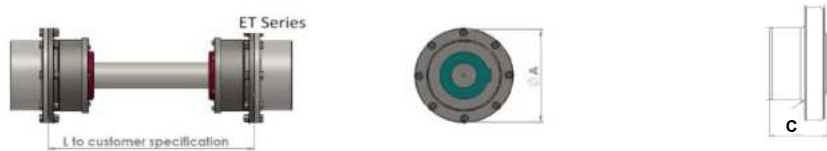
I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.

II. The coupling does not need maintenance or lubrication once installed.



Dimensions and specifications subject to change without notice – Rev 9. Amended April 2025

TCAE - ET SERIES: SPECIFICATIONS

PARAMETERS		UNIT	TCAE- ET -1	TCAE- ET -2	TCAE- ET -3	TCAE-ET-4	TCAE-ET-5	TCAE- ET -6	TCAE-ET-7
CONTINUOUS TORQUE, T100		N.m	408	826	1,443	CHECK WITH THOMPSON COUPLINGS OR DISTRIBUTOR		3,823	CHECK WITH THOMPSON COUPLINGS OR DISTRIBUTOR
NOMINAL POWER CAP AT: (Based on 1500 RPM machine service factor of 1.25 Service life of 7,200 Hours)	1000 RPM	kW***	43	86	151			400	
	1500 RPM	kW***	64	130	227			600	
	MAX RPM	kW***	3,000 rpm 128 kW	3,000 rpm 260 kW	3,000 rpm 453 kW			2,200 rpm 880 kW	
MAXIMUM MISALIGNMENT ANGLE		DEGREE °	10 °	10 °	10 °			10 °	
MAXIMUM SERVICE		°C	120	120	120		120		
SERVICE LIFE		AS PER CUSTOMER APPLICATION							
DIMENSION øA		mm	152	180	225	CHECK WITH THOMPSON COUPLINGS OR DISTRIBUTOR		260	CHECK WITH THOMPSON COUPLINGS OR DISTRIBUTOR
DIMENSION L (MINIMUM)			150	160	165			195	
DIMENSION C FLANGE LENGTH			42	44.5	50.8			CHECK DISTRIBUTOR	
AXIAL EXPANSION		± mm	16	20	24			29	
<div></div>									
PARAMETERS		UNIT	TCAE- ET -8	TCAE-ET-9	TCAE- ET -10	TCAE-ET-11	TCAE- ET -12	TCAE-ET-13	TCAE-ET-14
CONTINUOUS TORQUE, T100		N.m	7,741	CHECK WITH THOMPSON COUPLINGS OR DISTRIBUTOR	18,115	CHECK WITH THOMPSON COUPLINGS OR DISTRIBUTOR	35,598	CHECK WITH THOMPSON COUPLINGS OR DISTRIBUTOR	
NOMINAL POWER CAP AT: (Based on 1500 RPM machine service factor of 1.25 Service life of 7,200 Hours)	1000 RPM	kW***	810		1,900		3,730		
	1500 RPM	kW***	1216						
	MAX RPM	kW***	2,200 rpm 1,784 kW		1,500 rpm 2,850 kW		1,200 rpm 4,473 kW		
MAXIMUM MISALIGNMENT ANGLE		DEGREE °	10 °		10 °		10 °		
MAXIMUM SERVICE		°C	120	120	120	120			
SERVICE LIFE		AS PER CUSTOMER APPLICATION							
DIMENSION øA		mm	320	CHECK WITH THOMPSON COUPLINGS OR DISTRIBUTOR	450	CHECK WITH THOMPSON COUPLINGS OR DISTRIBUTOR	560	CHECK WITH THOMPSON COUPLINGS OR DISTRIBUTOR	
DIMENSION L (MINIMUM)		mm	245		320		344		
DIMENSION C FLANGE LENGTH		mm	CHECK DISTRIBUTOR		CHECK DISTRIBUTOR		CHECK DISTRIBUTOR		
AXIAL EXPANSION		± mm	35	DISTRIBUTOR	40	DISTRIBUTOR	46		
* continuous torque, t100 is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine but service factor of 1 will give 3 years continuous service life.									

Dimensions and specifications subject to change without notice – Rev 9. Amended April 2025

Thompson Coupling Alignment Eliminator (TCAE-ET-1) Technical Specifications and Details

Continuous Torque, $T_{100}^{(4)}$	408 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	Dependent on shaft length
L₁₀ bearing life ⁽²⁾	As per Calculation or contact Company / Distributor
Max. Service Temperature	Up to 120 °C continuous
Connection Details	Keyed shaft via taper lock bush #1615. Shaft size range 16mm - 65mm (0.625" - 2.5")
DIMENSION ϕA	152 mm
DIMENSION L	150 mm MIN to 2000 MAX or Contact Company or Distributor
Weight	Dependent on customer application by shaft length
Coupling Part Number	001-801-014
Pilot Bored Flange Part Number	001-801-0143
Taper Lock Flange Part Number	001-801-0147

(1) Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours.

(2) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

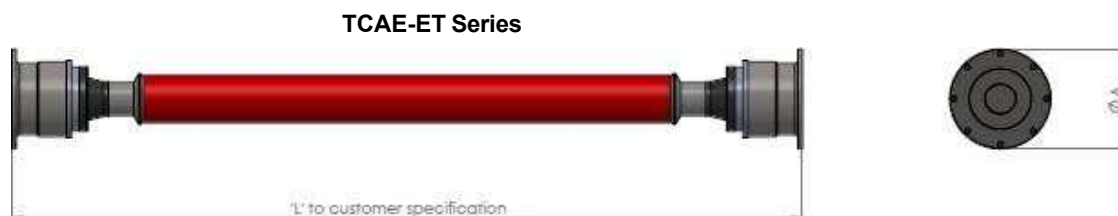
(3) Maximum power cap. subject to shaft length.

(4) Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.

II. The coupling does not need maintenance or lubrication once installed.



Dimensions and specifications subject to change without notice – Rev 9. Amended April 2025

Thompson Coupling Alignment Eliminator (TCAE-ET-2) Technical Specifications and Details

Continuous Torque, $T_{100}^{(4)}$	826 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	Dependent on shaft length
L₁₀ bearing life ⁽²⁾	As per Calculation or contact Company / Distributor
Max. Service Temperature	Up to 120 °C continuous
Connection Details	Keyed shaft via taper lock bush #2012. Shaft size range 16mm - 65mm (0.625" - 2.5")
DIMENSION ϕA	180 mm
DIMENSION L	160 mm MIN to 2000 Max or Contact Company or Distributor
Weight	Dependent on customer application by shaft length
Coupling Part Number	001-801-002
Pilot Bored Flange Part Number	001-801-0023
Taper Lock Flange Part Number	001-801-0027

(1) Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours.

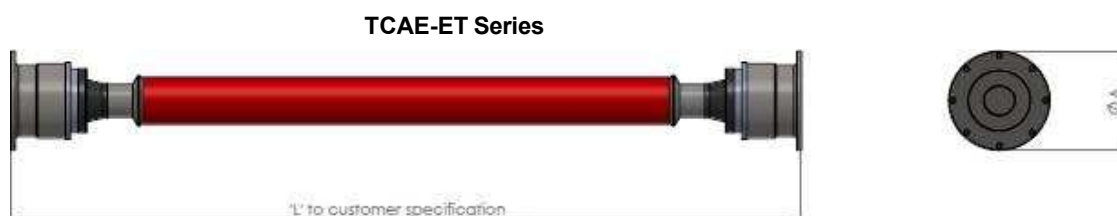
(2) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

(3) Maximum power cap. subject to shaft length.

(4) Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

- I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.
- II. The coupling does not need maintenance or lubrication once installed.



Dimensions and specifications subject to change without notice – Rev 9. Amended April 2025

Thompson Coupling Alignment Eliminator (TCAE-ET-3) Technical Specifications and Details

Continuous Torque, $T_{100}^{(4)}$	1,443 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	+/- 7 mm
L₁₀ bearing life ⁽²⁾	As per Calculation or contact Company / Distributor
Max. Service Temperature	Up to 120 °C continuous
Connection Details	Keyed shaft via taper lock bush #3020
DIMENSION ϕA	225 mm
DIMENSION L	165 mm Min to 2000 Max or Contact Company or distributor
Weight	Dependent on customer application by shaft length
Coupling Part Number	001-801-003
Pilot Bored Flange Part Number	001-801-0033
Taper Lock Flange Part Number	001-801-0037

⁽¹⁾ Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours.

⁽²⁾ Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

⁽³⁾ Maximum rated speed.

⁽⁴⁾ Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.

II. The coupling does not need maintenance or lubrication once installed.

TCAE-ET Series



Dimensions and specifications subject to change without notice – Rev 9. Amended April 2025

Thompson Coupling Alignment Eliminator (TCAE-ET-6) Technical Specifications and Details

Continuous Torque, $T_{100}^{(5)}$	3,823 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	Dependent on shaft length
L₁₀ bearing life ⁽²⁾	As per Calculation or contact Company / Distributor
Max. Service Temperature	Up to 120 °C continuous
Connection Details	Keyed shaft via taper lock bush #3525.
DIMENSION ϕA	260 mm
DIMENSION L	195 mm Min to 2000 Max or Contact Company or Distributor
Weight	Dependent on customer application by shaft length
Coupling Part Number	001-801-006
Pilot Bored Flange Part Number	001-801-0063
Taper Lock Flange Part Number	001-801-0067

(1) Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours.

(2) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

(3) Maximum rated speed.

(4) Maximum power cap. subject to shaft length.

(5) Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.

II. The coupling does not need maintenance or lubrication once installed.



Dimensions and specifications subject to change without notice – Rev 9. Amended April 2025

Thompson Coupling Alignment Eliminator (TCAE-ET-8) Technical Specifications and Details

Continuous Torque, $T_{100}^{(4)}$	7,741 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	+/- 9 mm
L_{10} bearing life ⁽²⁾	As per Calculation or contact Company / Distributor
Max. Service Temperature	Up to 120 °C continuous
Connection Details	Keyed shaft via taper lock bush #4535
DIMENSION ϕA	320 mm
DIMENSION L	245 mm Min to 2000 Max or Contact Company or Distributor.
Weight	Dependent on customer application by shaft length
Coupling Part Number	001-801-008
Pilot Bored Flange Part Number	001-801-0083
Taper Lock Flange Part Number	001-801-0087

⁽¹⁾ Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours.

⁽²⁾ Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

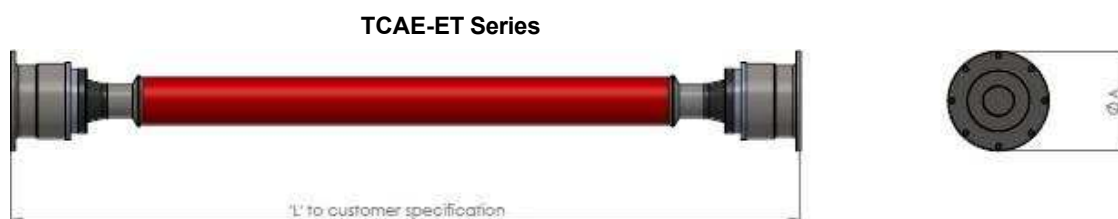
⁽³⁾ Maximum rated speed.

⁽⁴⁾ Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.

II. The coupling does not need maintenance or lubrication once installed.



Dimensions and specifications subject to change without notice – Rev 9. Amended April 2025

Thompson Coupling Alignment Eliminator (TCAE-ET-10) Technical Specifications and Details

Continuous Torque, $T_{100}^{(4)}$	18,115 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	+/- 7 mm
L₁₀ bearing life ⁽²⁾	As per Calculation or contact Company / Distributor
Max. Service Temperature	Up to 120 °C continuous
Connection Details	Keyed shaft via taper lock bush #6050
DIMENSION ϕA	450 mm
DIMENSION L	320 mm Min to 2000 Max or Contact Company or Distributor
Weight	Dependent on Length of Shaft
Coupling Part Number	001-801-010
Pilot Bored Flange Part Number	001-801-0103
Taper Lock Flange Part Number	001-801-0107

⁽¹⁾ Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours

⁽²⁾ Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

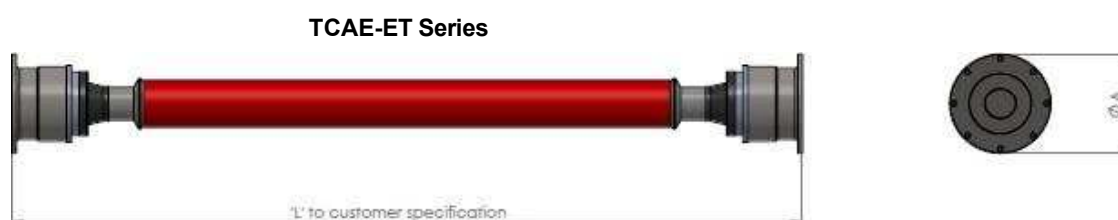
⁽³⁾ Maximum rated speed.

⁽⁴⁾ Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.

II. The coupling does not need maintenance or lubrication once installed.



Dimensions and specifications subject to change without notice – Rev 9. Amended April 2025

Thompson Coupling Alignment Eliminator (TCAE-ET-12) Technical Specifications and Details

Continuous Torque, $T_{100}^{(4)}$	35,598 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	+/- 7 mm
L₁₀ bearing life ⁽²⁾	As per Calculation or contact Company / Distributor
Max. Service Temperature	Up to 120 °C continuous
Connection Details	Keyed shaft via taper lock bush #8065
DIMENSION ϕA	560 mm
DIMENSION L	344 mm Min. to 2000 Max or Contact Company/Distributor
Weight	Dependent on Length of Shaft
Coupling Part Number	001-801-012
Pilot Bored Flange Part Number	001-801-0123
Taper Lock Flange Part Number	001-801-0127

⁽¹⁾ Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours

⁽²⁾ Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

⁽³⁾ Maximum rated speed.

⁽⁴⁾ Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.

II. The coupling does not need maintenance or lubrication once installed.



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TCAE - L SERIES : SPECIFICATIONS

PARAMETERS:		UNIT	TCAE-L-1	TCAE-L-2	TCAE-L-3	TCAE-L-4
CONTINUOUS TORQUE, T100*		N.m	384	906	1,527	2,475
NOMINAL POWER CAP: (Based on machine service factor of 1.25 misaligned angle of 1 degree and service life of 7,200 hours)	1000 RPM	kW	32	76	128	207
	1500 RPM	kW	48	114	192	311
	MAX RPM	kW	3,000 rpm 96 kW	3,000 rpm 227 kW	3,000 rpm 384 kW	3,000 rpm 622 kW
MAXIMUM MISALIGNMENT		Degree	10 °	10 °	10 °	10 °
MAXIMUM PARALLEL SHAFT OFFSET		mm	DEPENDANT ON CUSTOMER LENGTH			
MAXIMUM SERVICE TEMPERATURE		°C	120 °C continuous	120 °C continuous	120 °C continuous	120 °C continuous
SERVICE LIFE (L10 bearing life)			AS PER CUSTOMER APPLICATION			
DIMENSION ØA		mm	148	178	215	253
DIMENSION L		mm	307 MIN TO 2000 MAX	386 MIN TO 2000 MAX	429 MIN TO 2000 MAX	473 MIN TO 2000 MAX
DIMENSION C FLANGE LENGTH		mm	48	48	61	74
AXIAL EXPANSION		± mm	16	20	24	27



PARAMETERS		UNIT	TCAE-L-5	TCAE-L-6	TCAE-L-7	TCAE-L-8
CONTINUOUS TORQUE, T100*		N.m	3,686	5,266	7,162	9,479
NOMINAL POWER CAP: (Based on machine service factor of 1.25 misaligned angle of 1 degree and service life of 7,200 hours)	1000 RPM	kW	386	551	750	992
	1500 RPM	kW	579	827	1,125	
	MAX RPM	kW	2,200rpm 1,158 kW	2,200 rpm 1,654 kW	2,000 rpm 2,250 kW	1,500 rpm 1,488 kW
MAXIMUM MISALIGNMENT		Degree	10 °	10 °	10 °	10 °
MAXIMUM PARALLEL SHAFT OFFSET		± mm	DEPENDANT ON CUSTOMER LENGTH			
MAXIMUM SERVICE TEMPERATURE		°C	120 °C continuous	120 °C continuous	120 °C continuous	120 °C continuous
SERVICE LIFE (L10 bearing life)			AS PER CUSTOMER APPLICATION			
DIMENSION ØA		mm	278	300	330	370
DIMENSION L		mm	500 MIN TO 2000 MAX	582 MIN TO 2000 MAX	643 MIN TO 2000 MAX	760 MIN TO 2000 MAX
		mm	74	74	74	74
AXIAL EXPANSION		± mm	29	29	30	35

* NOTE 1: continuous torque, t100 is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine but service factor of 1 will give 3 years continuous service life.

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Thompson Coupling Alignment Eliminator (TCAE-L-1) Technical Specifications and Details

Continuous Torque, $T_{100}^{(4)}$	384 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	Dependent on shaft length
L₁₀ bearing life ⁽²⁾	Contact us for your specific application
Max. Service Temperature	Up to 120 °C continuous
Connection Details	Keyed shaft via taper lock bush #2517. Shaft size range 16mm - 65mm (0.625" - 2.5")
DIMENSION ϕA	148 mm
DIMENSION L	307 mm min to 2000 mm
Weight	Dependent on customer application by shaft length
Coupling Part Number	001-601-001
Pilot Bored Flange Part Number	001-601-0013
Taper Lock Flange Part Number	001-601-0017

⁽¹⁾ Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours.

⁽²⁾ Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

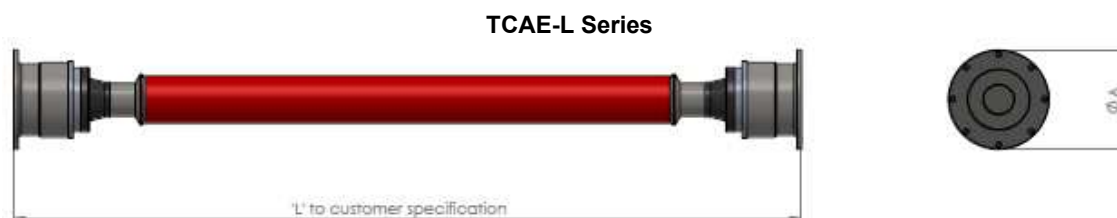
⁽³⁾ Maximum power cap. subject to shaft length.

⁽⁴⁾ Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.

II. The coupling does not need maintenance or lubrication once installed.



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Thompson Coupling Alignment Eliminator (TCAE-L-2) Technical Specifications and Details

Continuous Torque, $T_{100}^{(4)}$	906 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	Dependent on shaft length
L₁₀ bearing life ⁽²⁾	Contact us for your specific application
Max. Service Temperature	Up to 120 °C continuous
Connection Details	Keyed shaft via taper lock bush #2517. Shaft size range 16mm - 65mm (0.625" - 2.50")
DIMENSION ϕA	178 mm
DIMENSION L	386 mm min to 2000 mm Max
Weight	Dependent on customer application by shaft length
Coupling Part Number	001-601-002
Pilot Bored Flange Part Number	001-601-0023
Taper Lock Flange Part Number	001-601-0027

⁽¹⁾ Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours.

⁽²⁾ Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

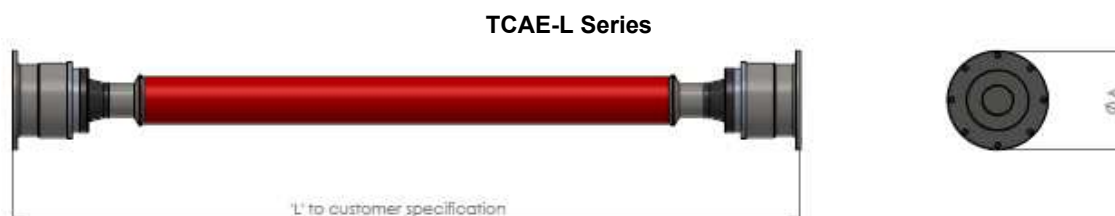
⁽³⁾ Maximum power cap. subject to shaft length.

⁽⁴⁾ Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.

II. The coupling does not need maintenance or lubrication once installed.



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Thompson Coupling Alignment Eliminator (TCAE-L-3) Technical Specifications and Details

Continuous Torque, $T_{100}^{(4)}$	1,527 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	Dependent on shaft length
L₁₀ bearing life ⁽²⁾	Contact us for your specific application
Max. Service Temperature	Up to 120 °C continuous
Connection Details	Keyed shaft via taper lock bush #3020. Shaft size range 25mm - 75mm (1.00" – 3.00")
DIMENSION ϕA	215 mm
DIMENSION L	429 mm Min to 2000 mm Max
Weight	Dependent on customer application by shaft length
Coupling Part Number	001-601-003
Pilot Bored Flange Part Number	001-601-0033
Taper Lock Flange Part Number	001-601-0037

⁽¹⁾ Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours.

⁽²⁾ Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

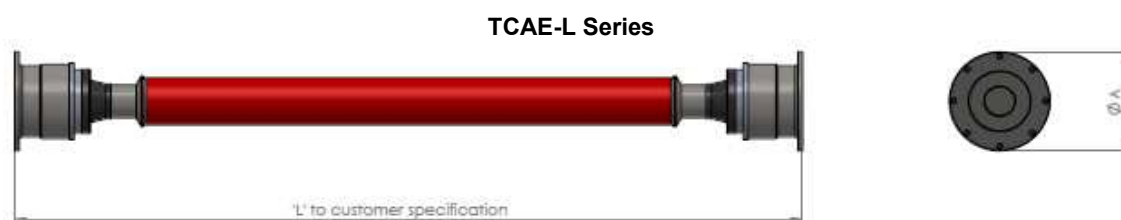
⁽³⁾ Maximum power cap. subject to shaft length.

⁽⁴⁾ Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.

II. The coupling does not need maintenance or lubrication once installed.



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Thompson Coupling Alignment Eliminator (TCAE-L-4)

Technical Specifications and Details

Continuous Torque, $T_{100}^{(4)}$	2,475 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	Dependent on shaft length
L₁₀ bearing life ⁽²⁾	Contact us for your specific application
Max. Service Temperature	Up to 120 °C continuous
Connection Details	Keyed shaft via taper lock bush #3525. Shaft size range 35mm - 100mm (1.50" - 4.00")
DIMENSION ϕA	253 mm
DIMENSION L	473 mm Min to 2000 Max
Weight	Dependent on customer application by shaft length
Coupling Part Number	001-601-004
Pilot Bored Flange Part Number	001-601-0043
Taper Lock Flange Part Number	001-601-0047

⁽¹⁾ Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours.

⁽²⁾ Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

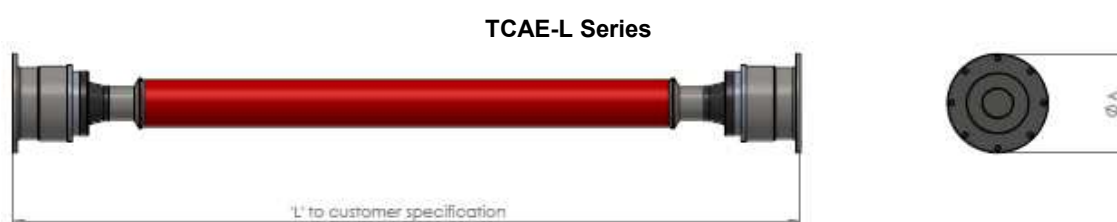
⁽³⁾ Maximum power cap. subject to shaft length.

⁽⁴⁾ Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.

II. The coupling does not need maintenance or lubrication once installed.



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Thompson Coupling Alignment Eliminator (TCAE-L-5) Technical Specifications and Details

Continuous Torque, $T_{100}^{(4)}$	3,686 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	Dependent on shaft length
L₁₀ bearing life ⁽²⁾	Contact us for your specific application
Max. Service Temperature	Up to 120 °C continuous
Connection Details	Keyed shaft via taper lock bush #3525. Shaft size range 35mm-100mm (1.50" – 4.00")
DIMENSION ϕA	278 mm
DIMENSION L	500 mm Min to 2000 mm Max
Weight	Dependent on customer application by shaft length
Coupling Part Number	001-601-005
Pilot Bored Flange Part Number	001-601-0053
Taper Lock Flange Part Number	001-601-0057

⁽¹⁾ Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours.

⁽²⁾ Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

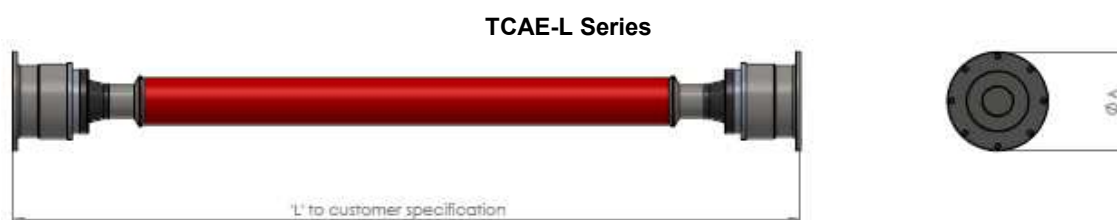
⁽³⁾ Maximum power cap. subject to shaft length.

⁽⁴⁾ Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.

II. The coupling does not need maintenance or lubrication once installed.



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Thompson Coupling Alignment Eliminator (TCAE-L-6)

Technical Specifications and Details

Continuous Torque, $T_{100}^{(5)}$	5,266 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	Dependent on shaft length
L₁₀ bearing life ⁽²⁾	Contact us for your specific application
Max. Service Temperature	Up to 120 °C continuous
Connection Details	Keyed shaft via taper lock bush #3525. Shaft size range 35mm - 100mm (1.50" - 4.00")
DIMENSION ϕA	300 mm
DIMENSION L	582 mm Min to 2000 Max
Weight	Dependent on customer application by shaft length
Coupling Part Number	001-601-006
Pilot Bored Flange Part Number	001-601-0063
Taper Lock Flange Part Number	001-601-0067

⁽¹⁾ Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours.

⁽²⁾ Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

⁽³⁾ Maximum rated speed.

⁽⁴⁾ Maximum power cap. subject to shaft length.

⁽⁵⁾ Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.

II. The coupling does not need maintenance or lubrication once installed.



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Thompson Coupling Alignment Eliminator (TCAE-L-7)

Technical Specifications and Details

Continuous Torque, $T_{100}^{(5)}$	7,162 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	Dependent on shaft length
L₁₀ bearing life ⁽²⁾	Contact us for your specific application
Max. Service Temperature	Up to 120 °C continuous
Connection Details	Keyed shaft via taper lock bush #3525. Shaft size range 35mm - 100mm (1.50" - 4.00")
DIMENSION ϕA	330 mm
DIMENSION L	643 mm Min to 2000 mm Max
Weight	Dependent on customer application by shaft length
Coupling Part Number	001-601-007
Pilot Bored Flange Part Number	001-601-0073
Taper Lock Flange Part Number	001-601-0077

⁽¹⁾ Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours.

⁽²⁾ Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

⁽³⁾ Maximum rated speed.

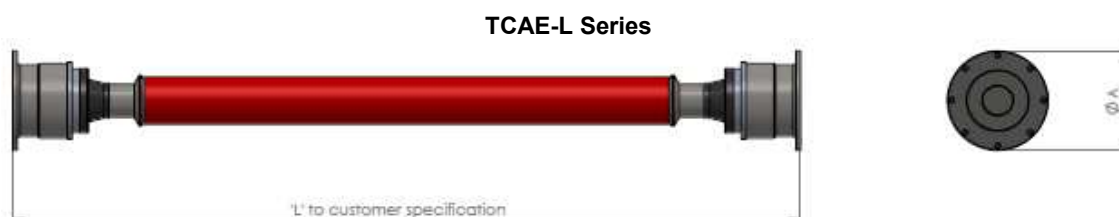
⁽⁴⁾ Maximum power cap. subject to shaft length.

⁽⁵⁾ Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.

II. The coupling does not need maintenance or lubrication once installed.



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Thompson Coupling Alignment Eliminator (TCAE-L-8) Technical Specifications and Details

Continuous Torque, $T_{100}^{(5)}$	9,479 Nm
Max. Misalignment Angle	+/- 5° Per Head
Max. Parallel Shaft Offset	Dependent on shaft length
L₁₀ bearing life ⁽²⁾	Contact us for your specific application
Max. Service Temperature	Up to 120 °C continuous
Connection Details	Keyed shaft via taper lock bush #3525. Shaft size range 35mm - 100mm (1.50" - 4.00")
DIMENSION ϕA	370 mm
DIMENSION L	760 mm Min to 2000 mm
Weight	Dependent on customer application by shaft length
Coupling Part Number	001-601-008
Pilot Bored Flange Part Number	001-601-0083
Taper Lock Flange Part Number	001-601-0087

⁽¹⁾ Nominal power capacity shown for different speeds is based on a coupling with a machine service factor of 1.25 operating at 1-degree misaligned angle and operating at 8 hours per day, 25 days per month for 3 years to give a service life of 7,200 hours.

⁽²⁾ Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.

⁽³⁾ Maximum rated speed.

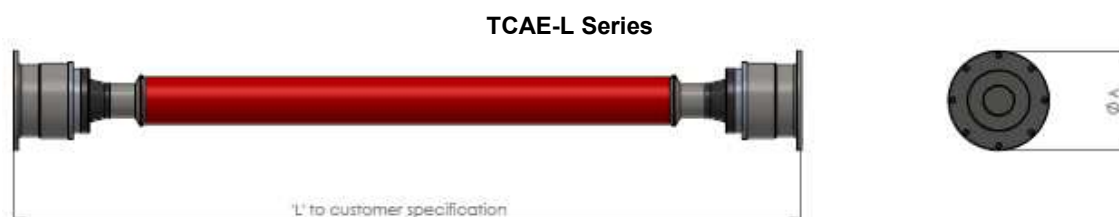
⁽⁴⁾ Maximum power cap. subject to shaft length.

⁽⁵⁾ Continuous Torque, T_{100} is defined as the unfactored torque value when run for 8 hours per day and 25 days per month at 100 rpm with a 0° coupling angle and machine service factor of 1 will give 3 years continuous service life.

Notes:

I. The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.

II. The coupling does not need maintenance or lubrication once installed.



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