

# TF Series - Coupling-based Torque Transducer

## Product Overview

The TF was the first spacer coupling that we instrumented in the 1980's. The TF name has been retained for specially engineered units based on any proprietary coupling manufacturer's spacer. Most torques and speeds can be accommodated and all of our TF couplings are rated to 65°C with a 100°C option.

Various signal-conditioning packages are available to suit your requirements. As standard the system is supplied with a bench mounted display for torque only. (Options for adding speed and power are available.)

### System Specifications:

Accuracy:	+/-0.5% of FS (Bi-directional)	Calibration level:	Specified on certificate
Output signal at zero Torque:	10 kHz	Overload capacity:	150% FS
Nominal output at +FS Torque:	15 kHz	Operating temp:	+5 to +65°C
Nominal output at -FS Torque:	5kHz	Optional temp range:	-0 to +100°C
Non-linearity:	±0.2% FS	Zero shift:	±0.01% FS/°C
Repeatability:	±0.05% FS	Span shift:	< ±0.02%FS/°C
Hysteresis:	±0.1% FS		

## Industrial Measurements

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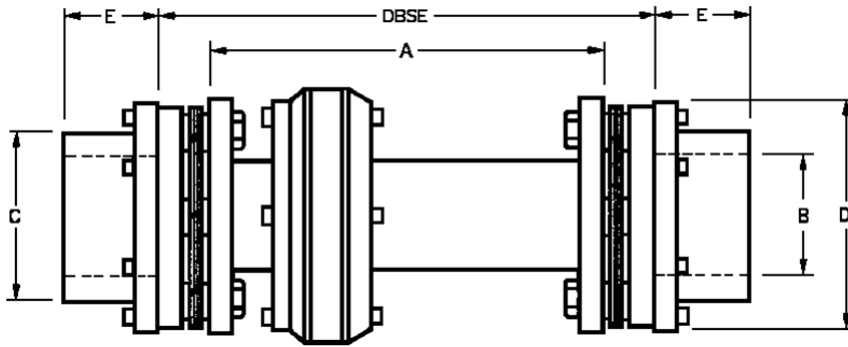


As of 2013 the system is **ATEX approved** and Certified by MET Laboratories to meet **CSA Standard C22.2**.

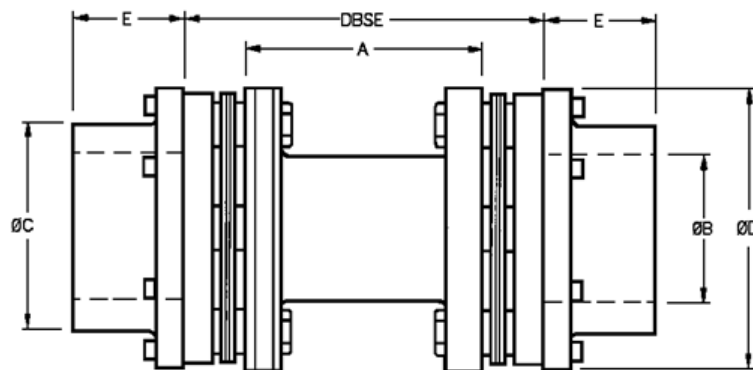
ATEX Certified for Zone 2 (ATEX Category 3) all gas groups T4 IEC61010 certified

CSA listing number:-E113696 Complies with CSA C22.2 No. 213-M1987 Class 1, Division 2, Groups A, B, C, D.

## Dimensions



TFC	Rated Torque (Nm)	Max Speed		Min DBSE	ØB (Max)	C	D	E
		Balanced	Unbalanced					
0013	125	25000	7000	190	36	54	86	40
0027	315	20000	6000	215	46	69	105	45
0075	715	16500	5200	240	65	90	130	55

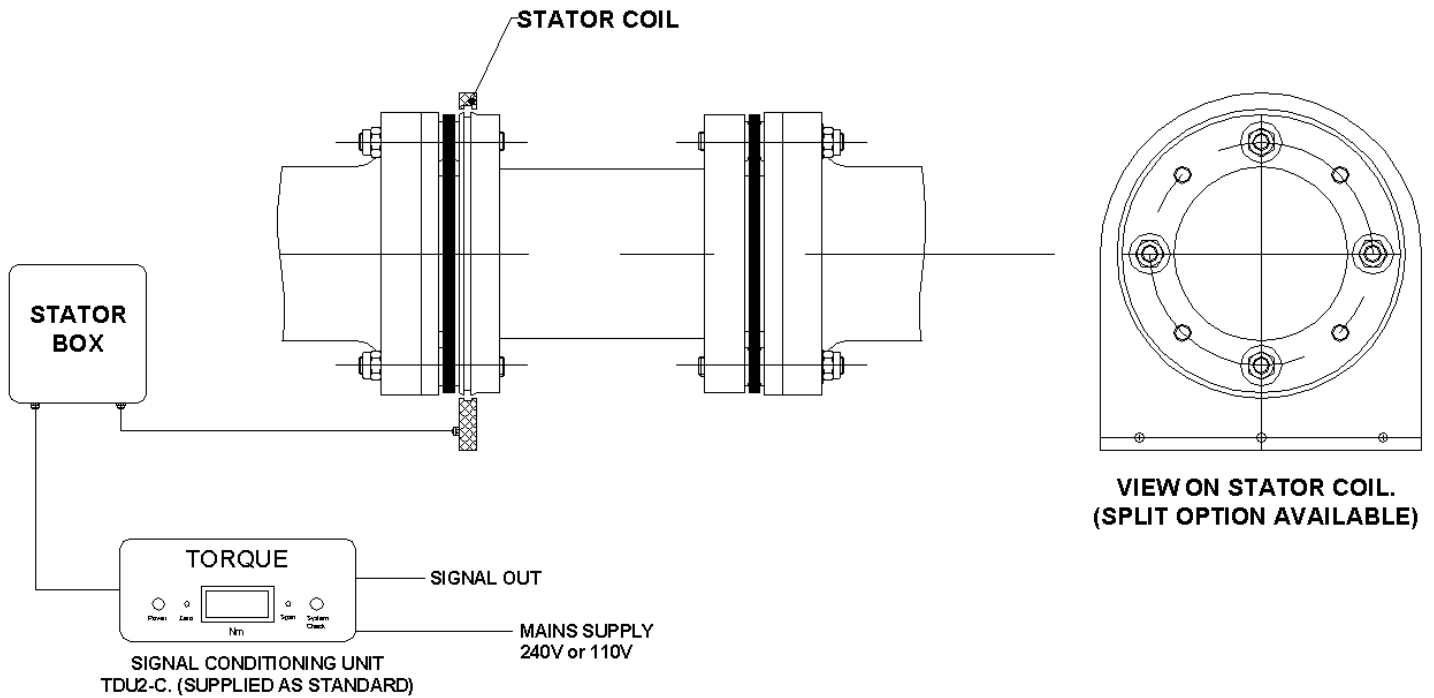


TFC	Rated Torque (Nm)	Max Speed		Min DBSE	ØB (Max)	C	D	E
		Balanced	Unbalanced					
0135	1290	14400	4800	225	80	112	152	62
0230	2200	12000	4700	255	90	131	179	70
0300	2900	15300	5700	255	84	119	155	84
0500	4800	12800	5000	275	100	143	185	100
0750	7000	11300	4600	295	110	161	209	110
1050	10000	10100	4200	315	134	187	235	134
1500	14300	9000	3900	340	148	208	262	148
2000	19000	8200	3700	365	161	225	288	161

Other ratings and customer sizes are available.



## System Schematic (Torque only)



Signal Conditioning Unit (Bench Mounted) Output Options:- 4-12-20mA, +/-10Vdc.

Other display option:-

- Bench mounted display for speed, output signal 0-10Vdc
- 19" rack, for torque, speed and power, or a combination.
- Wall mounted cabinet

# Providing custom torque solutions. Industrial Measurements.

**Founded in 1981, Industrial Measurements have been providing comprehensive torque measurement solutions and the design & manufacture of standard and bespoke torque transducers, for over 35 years.**

We pride ourselves on being able to provide a solution no matter what the challenge. As well our standard products such as in-line rotary torque transducers & static torque systems, we are devoted to designing and manufacturing completely bespoke torque systems to suit our customers needs.

As well as offering one of the largest ranges of torque transducers in the world, we also make specialised torque sensors, torque meters and load cells. We also provide a fully accredited torque calibration service, not just for our own products but for other manufacturers torque products too.

Whilst our head office is based in the UK, we have customers from all over the world, in particular in Western Europe and we are always looking to extend our customer base and offer support and technical advice to all current and future customers.

The knowledge and commitment of our dedicated employees has aided in building a quality customer base across the globe and we supply several industries including marine & offshore, steel plants, automotive, aerospace, power generation and much more.



For more information about the TF Series or for a quote, call +44 (0) 1455 25 14 88 or email [sales@indmeas.co.uk](mailto:sales@indmeas.co.uk).

## Providing custom torque solutions

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