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STS Series Torque Sensors for DFS-R-ND Series

Specification Sheet
SS-FM-3025-0305
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The CHATILLON® STS Series torque sensors are full-bridge strain gauge sensors complete with 15-pin plug. These sensors are used exclusively with the Chatillon DFS-R-ND Series digital indicator. The sensor's torque values and sensitivity factors are stored in memory within the sensor plug. When connected to a DFS-R-ND indicator, the capacity and calibration points are automatically recognized by the instrument. The instrument then becomes a full-featured torque measurement instrument. The STS Series torque sensor meets ASTM E4 and BS EN ISO 7500 part 1 for a $\pm 0.3\%$ accuracy sensor. The sensors are connected to the DFS-R-ND with a retractable cord that extends fully to nearly 9 ft. (3 m).

Remote Sensors- Torque Measurement

Model	in-oz	N-cm	in-lb	kg-cm	N-m
STS-0003	50 x 0.005	35 x 0.005	3 x 0.0005	3.5 x 0.0005	0.35 x 0.0001
STS-0012	192 x 0.02	125 x 0.02	12 x 0.002	12.5 x 0.002	1.25 x 0.0002
STS-0050	800 x 0.1	500 x 0.05	50 x 0.005	50 x 0.005	5 x 0.0005
STS-0100	-	1000 x 0.1	100 x 0.01	100 x 0.01	10 x 0.001
STS-0200	-	2000 x 0.2	200 x 0.02	200 x 0.02	20 x 0.002



DFS-R shown with STS Series torque sensor.

Specifications

- Input Resistance:** 1100 ohms ± 100
- Output Resistance:** 1000 ohms ± 100
- Rated Output:** 2.0 mV/V
- Safe Overload:** 150% Full Scale
- Non-Linearity:** $\pm 0.1\%$ Full Scale
- Hysteresis:** $\pm 0.1\%$ Full Scale
- Zero Balance:** $\pm 1.0\%$ Full Scale
- Operating Temp:** 30° to 120°F (-40° to 82°C)

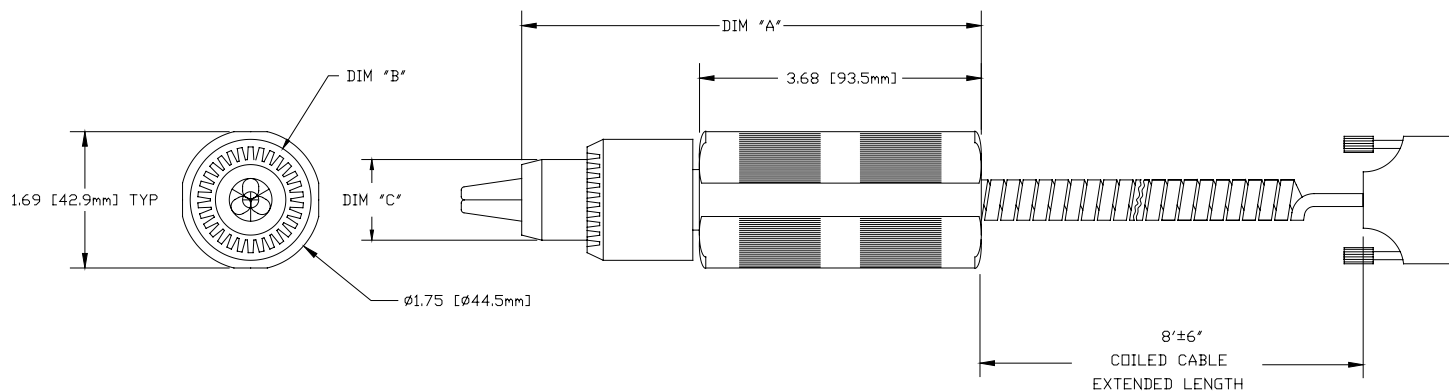


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Dimensions - STS Torque Sensor



200 IN-LB	6.00 [152.4mm]	Ø1.62 [Ø41.1mm]	Ø1.20 [Ø30.5mm]	5/64 TO 1/2	NO
100 IN-LB	6.00 [152.4mm]	Ø1.62 [Ø41.1mm]	Ø1.20 [Ø30.5mm]	5/64 TO 1/2	NO
50 IN-LB	6.00 [152.4mm]	Ø1.62 [Ø41.1mm]	Ø1.20 [Ø30.5mm]	5/64 TO 1/2	NO
12 IN-LB	6.00 [152.4mm]	Ø1.62 [Ø41.1mm]	Ø1.20 [Ø30.5mm]	5/64 TO 1/2	YES
50 OZ-IN	5.62 [142.7mm]	Ø1.25 [Ø31.8mm]	Ø1.00 [Ø25.4mm]	1/16 TO 3/8	YES
CAPACITY	DIM "A"	DIM "B"	DIM "C"	SAMPLE SIZE	OVERLOAD STOP

E96-356

AMETEK TEST AND CALIBRATION INSTRUMENTS

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