

ENGINEER TO ORDER

SPECIAL PROJECT INFORMATION SHEET



Project Description	Annular transducers with integral angle encoder		
Date created	18 July 2014	Project Number	Various - see below

INTRODUCTION & APPLICATION

Oil & gas industry requirement for accurate torque vs. angle data when topside cycle testing valves.



SOLUTION

Annular torque transducers with absolute angle encoder on the output shaft.



No1 -1,000 N.m
Q3055.01.LOG



No5 – 3,000 N.m
Q2795.01.LOG



No11 – 20,000 N.m
Q2943.LOG



No13 – 50,000 N.m
Q2942.LOG

Also available: No 9 – 10,000 N.m Q3157.LOG & No 14 – 100,000 N.m Q3144.LOG.
No.7 – 5,000 N.m & No.12 – 35,000 N.m can be engineered on request.

TECHNICAL SPECIFICATION / DATA HIGHLIGHTS

Angle resolution of 1.25° (No.1 + No.5) / 0.9° (No.7 + No.9) / 0.45° (No.11 – No.14).
Resolution is magnified x4 when used with a Norbar T-Box or T-Box XL Instrument.
Output signals are suitable for direct connection to a T-Box instrument using lead e.g. # 60269.400.
Both torque and angle output signals are fed to one connector, reducing the number of leads required.
The connector exits parallel with transducer axis. No.7 and above also have +/-90° swivel connector.
Dowel holes in both faces (except No.1 & No.5) for cycle testing use / repeated direction changes.
Calibration in clockwise and counter-clockwise directions is standard.
Materials and finishes to suit topside workshop valve testing (*not harsh environment*).