

ITEM	PART No	DESCRIPTION	MATERIAL	QTY
1	41005-01	MOTOR PULLEY	ALUMINIUM 6082	1
2	41005-02	MOTOR PULLEY BOTTOM	ALUMINIUM 6082	1
3	41005-09	SEAL END GASKET	KLINGER TOP - CHEM 2003	1
4	41005-10	TRANSFER PLATE SEAL	KLINGER TOP CHEM 2003	1
5	41005-101	FLANGE PLATE	Stainless Steel, 304	1
6	41005-102	MOTOR MOUNTING RING	ALUMINIUM 6082	1
7	41005-103	DRIVE TRANSFER PLATE	PEEK 450G	1
8	41005-104	FLANGE SEAL	KLINGER TOP-CHEM 2003	1
9	41005-105	STOP WASHER	Stainless Steel, 304	1
10	41005-106	BEARING HOUSING	ALUMINIUM 6082	1
11	41005-107	SEAL CLAMP	Stainless Steel, 304	2
12	41005-108	SEAL CLAMP PLATE	Stainless Steel, 304	1
13	41005-109	SHAFT NUT	Stainless Steel, 304	1
14	41005-110	BEARING SLEEVE.	Stainless Steel, 304	1
15	41005-112	SHAFT	Stainless Steel, 440C	1
16	41005-117	M6 OVERSIZED WASHER	Stainless Steel, 304	12
17	41005-118	COUPLING KEY	Stainless steel	1
18	SKF W6205	DEEP GROOVE BALL BEARING	STAINLESS STEEL	2
19	BS4518-0476-24	O RING	FFKM 75 ShA	1
20	EDRN90L4-FF-3D-KCC-TF-AL	ATEX RATED MOTOR	SEW	1
21	F314N-1 (N)	MAGNET (N)	FIRST 4 MAGNETS	8
22	F314N-1 (S)	MAGNET (S)	FIRST 4 MAGNETS	8
23	TVM200200-T01S	TURCON ROTARY SEAL	GENUINE TRELLEBORG	2
24	NSSB-0205-L2-S17	SMALLEY WAVE SPRING	17-7 STAINLESS STEEL	1
25	M4x20	M4 x 20 CAPSCREW	A2-70 STAINLESS	12
26	M6x16	M6 x16 CAP SCREW	HT GRADE 12.9	12
27	M8x25	M8 x 25 CAPSCREW	A2-70 STAINLESS	12
28	FLAT WASHER	M8 WASHER	STAINLESS STEEL	12
29	M5 X 15	COUNTERSUNK SCREW	A2 70 STAINLESS	16
30	M6 X 6	GRUBSCREW	A2 70 STAINLESS	2
32	SOCKET CSK SCREW	M10 x 20	A2 70 STAINLESS	1
34	M12 x 55	STUD	MILD STEEL ZINC PLATED	4
35	FASTENERS	M12 WASHER	STAINLESS STEEL	4
36	FASTENERS	M12 NUT	STAINLESS STEEL	4
37	STOCK	M3 x 8 CAPSCREW	SILVER STEEL	6

DO NOT SCALE - IF IN DOUBT, ASK

### CRITICAL NOTES!

STRICTLY ADHERE TO MAINTENANCE INSTRUCTIONS IN THE MANUAL

WHERE SPECIFIC MATERIAL GRADES ARE SPECIFIED FOR FASTENERS. IT MUST BE STRICTLY ADHERED TO.

LOCTITE 243 THREADLOCK MUST BE USED WHEN FITTING THE BEARING LOCKING SHAFT NUT TO THE SHAFT

### TORQUE VALUES: -

THE FOLLOWING LISTED BOLT SETS MUST BE TIGHTENED IN A CROSS OVER PATTERN SEQUENCE AS BUILDING TORQUE LEVEL UP AS FOLLOWS.

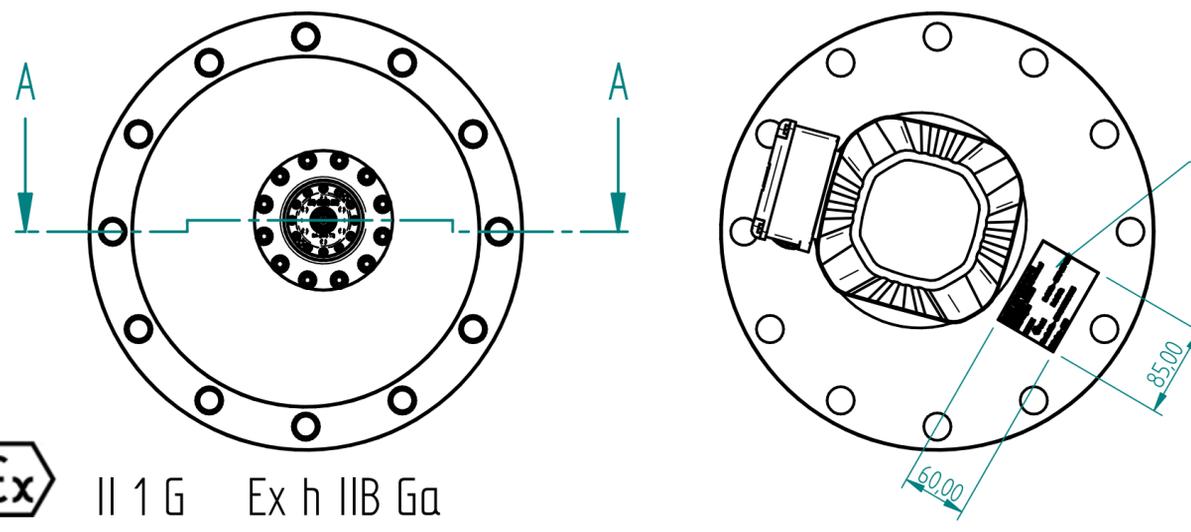
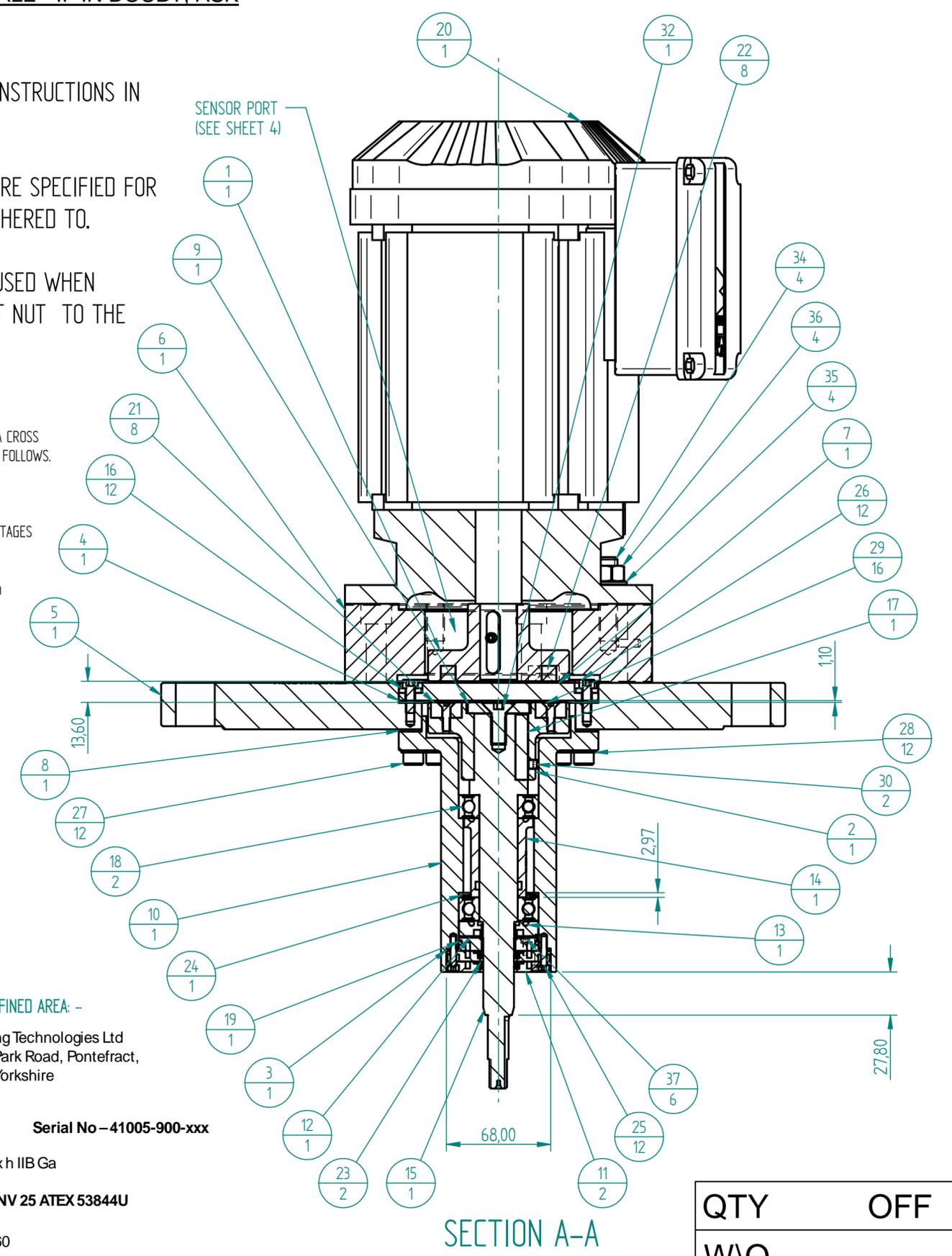
LUBRICATE ALL FASTENERS WITH PTFE SPRAY LUBE.

TIGHTEN EACH SET INCREASING TORQUE EQUALLY IN No OF STAGES STATED THEN REPEAT FINAL STAGE AFTER 30 MINS.

ITEM 24 - M4: - TIGHTEN TO IN 2 EQUAL STAGES TO 2.5 Nm

ITEM 25 - M6: - TIGHTEN IN 3 EQUAL STAGES TO 10.5 Nm

ITEM 26 - M8: - TIGHTEN IN 3 EQUAL STAGES TO 21 Nm



#### LASER MARK IN DEFINED AREA: -

Specialist Tooling Technologies Ltd  
Unit 2 Park 32, Park Road, Pontefract,  
WF8 4PS West Yorkshire  
United Kingdom

**MAGDRIVE** Serial No - 41005-900-xxx

Ex II 1 G Ex h IIB Ga

Atex cert no: DNV 25 ATEX 53844U

NB number: 2460

**Ex** II 1 G Ex h IIB Ga

QTY	OFF
W/O	

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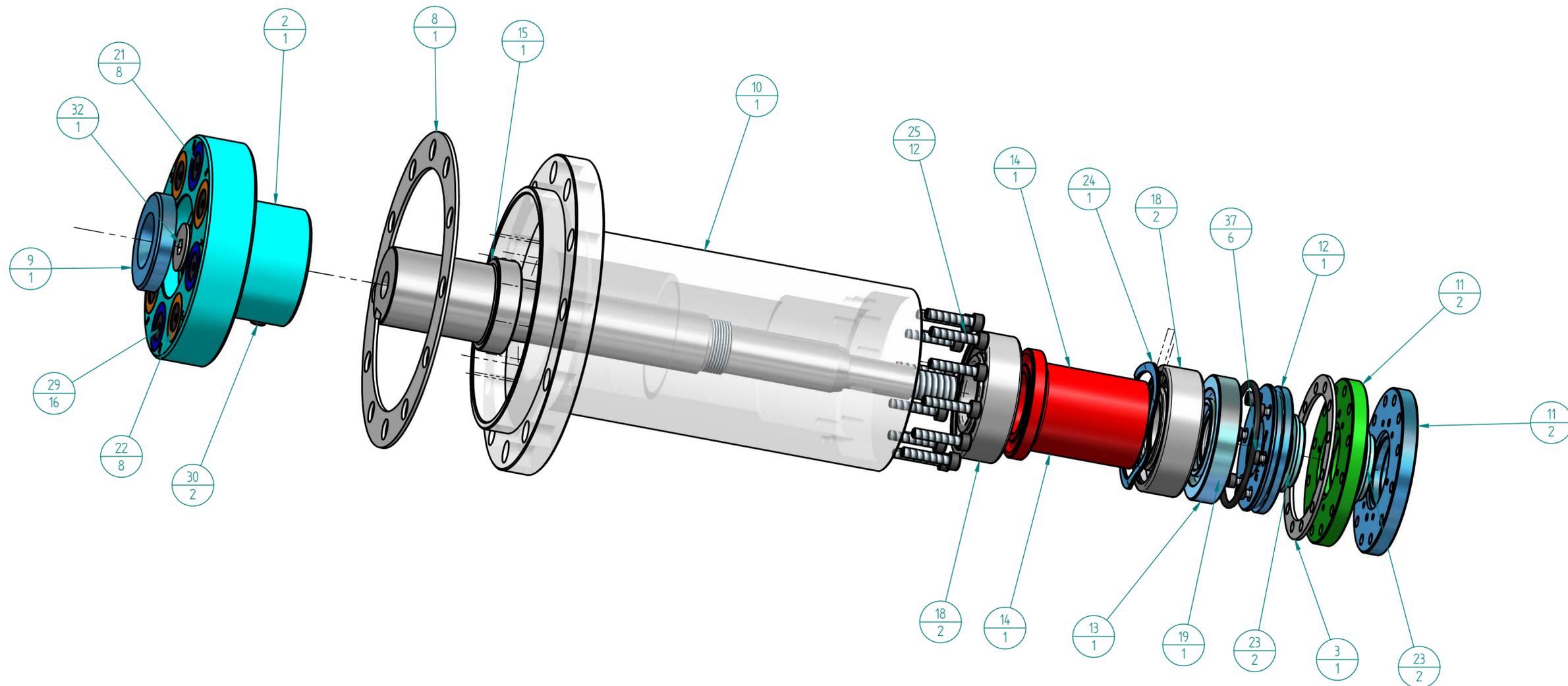
WELD AT	OR	UNSPECIFIED TOLERANCES	MM.	INCHES
GRIND AT 'G'	///////	WHOLE NUMBERS	±0.4	±1/64"
REMOVE ALL SHARP EDGES		ONE PLACE DECIMAL	±0.25	±0.010"
TOOL NUMBER AND COMPONENT NUMBER TO BE CLEARLY MARKED WHERE APPLICABLE.		TWO PLACE DECIMAL	±0.13	±0.005"
		THREE PLACE DECIMAL	±0.13	±0.005"
		ANGULAR	±0° 30'	±0° 30'
		HOLE SIZE	+0.15/-0.00	+0.006"/-0.000"

MATERIAL: -  
HEAT TREATMENT: -  
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3RD. ANGLE PROJECTION

**STT** SPECIALIST TOOLING TECHNOLOGIES LTD  
UNIT 2 PARK32  
PARK ROAD  
PONTEFRACT WF8 4PS  
TEL 01977 511799  
DESCRIPTION  
MAG DRIVE ASSEMBLY

FINISH: -	DRAWN Jon
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SHEET 1	CHKD. George
DRAWING NUMBER 41005-900	DATE 03/08/2021

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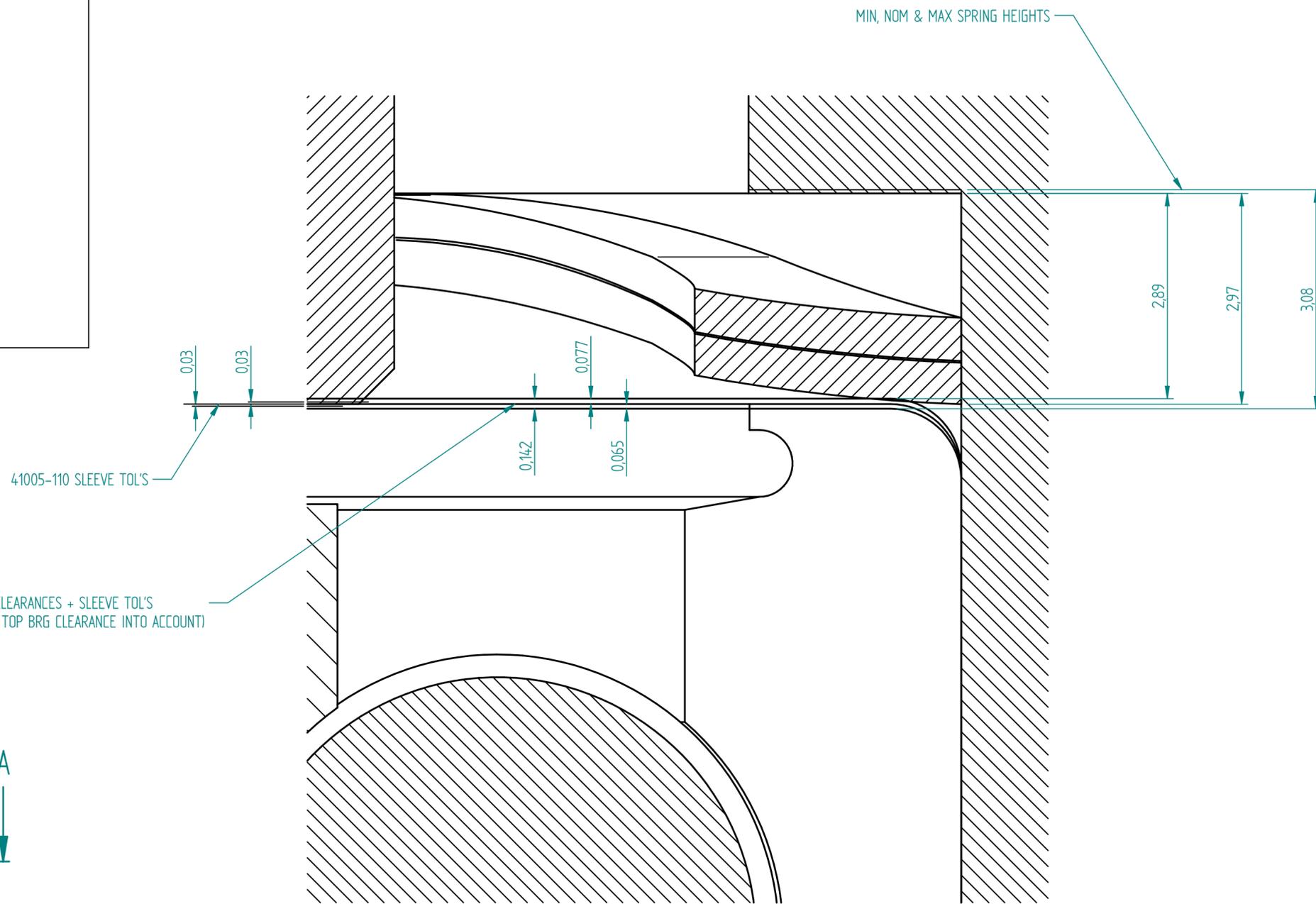
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MAX & MIN SPRING FORCES DUE TO TOLERANCE & BRG CLEARANCE

SPRING RATE = 241N/mm  
 SPRING WORK HGT = 241mm  
 MIN BRG AXIAL LOAD FOR SAFE OPERATION = 170N  
 MAX BRG AXIAL LOAD FOR SAFE OPERATION = 1,900N  
 SAFE WORKING HEIGHT OF SPRING = 2.97mm +/- 10%  
  
 MAX SPRING LOAD = (4.15-2.90) x 241 = 301.3N  
  
 NOMINAL SPRING FORCE @ WORK HGT = 284.8N  
  
 MIN SPRING LOAD = (4.15-3.09) x 241 = 255.5N



BREAKOUT VIEW OF SPRING POCKET ON SECTION A - A FROM SHT 1

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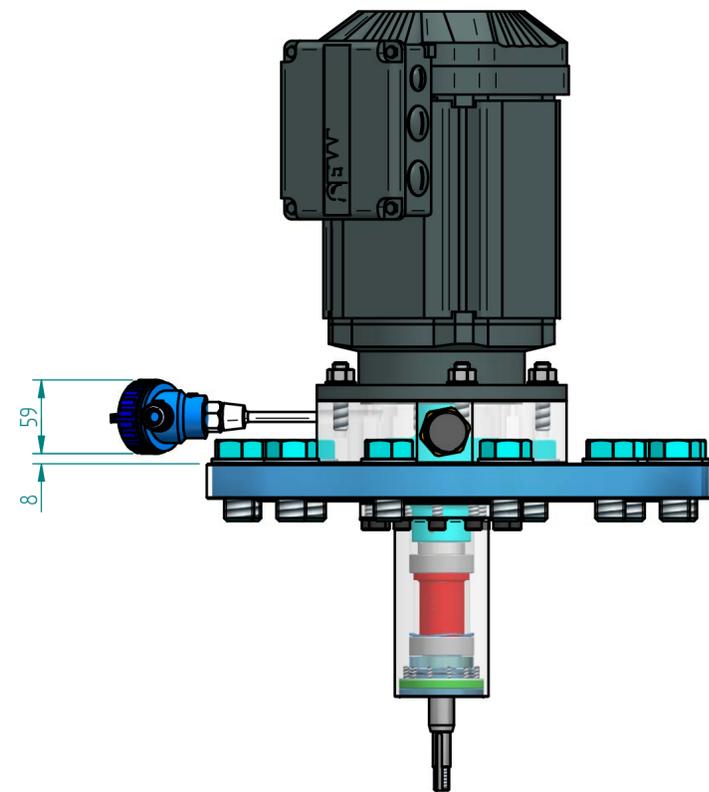
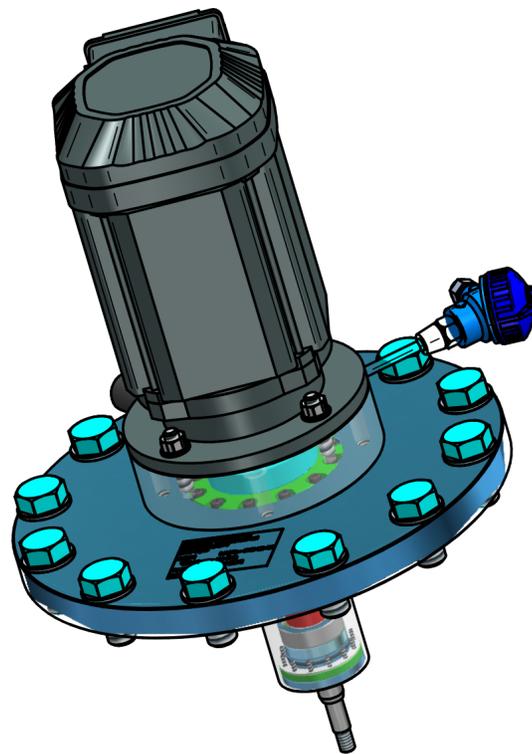
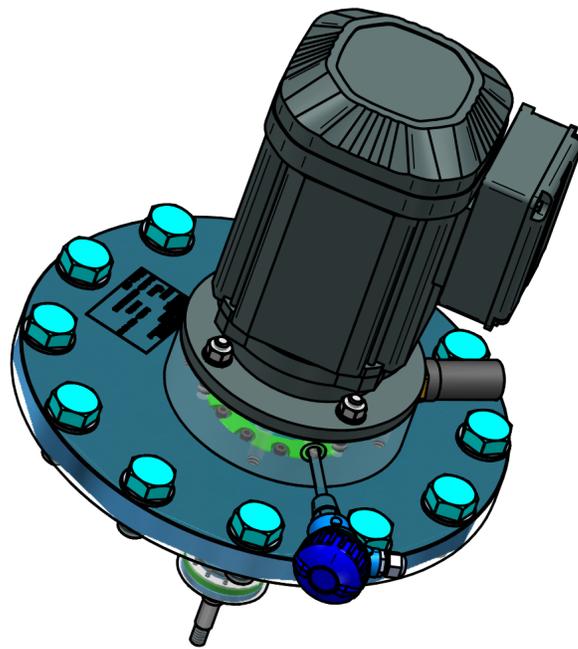
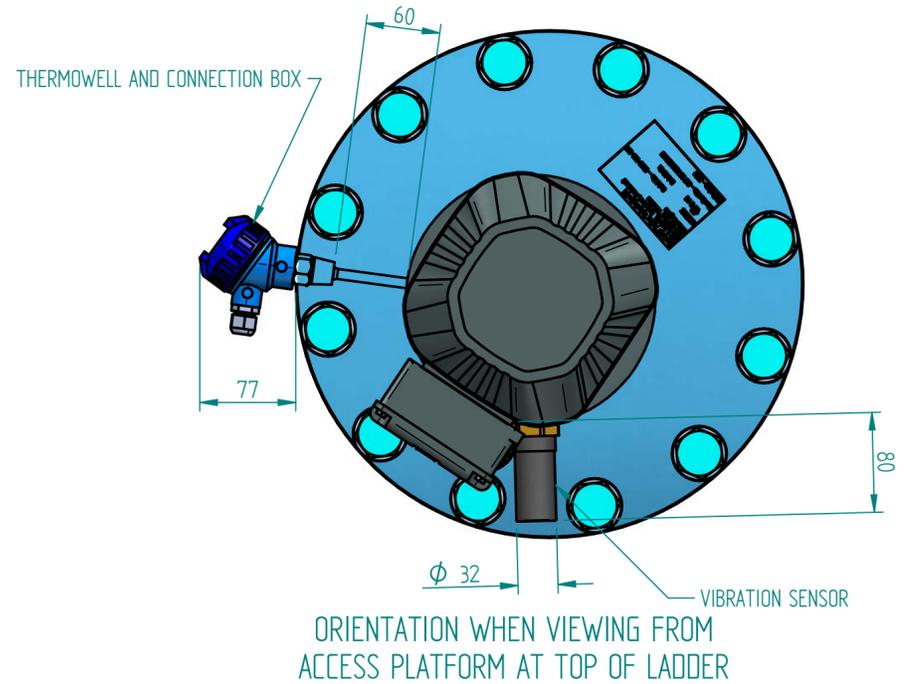
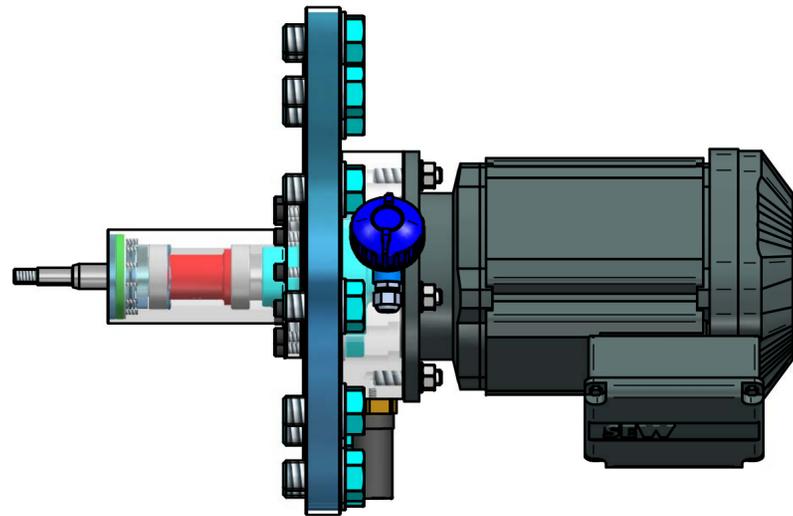
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THIS DRAWING SHEET IS FOR REFERANCE ONLY TO SHOW SENSOR POSITIONS. SENSORS TO BE FITTED AND INTEGRATED BY END USER AND SHOULD BE COVERED BY THE WHOLE SYSTEM CERTIFICATION.

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