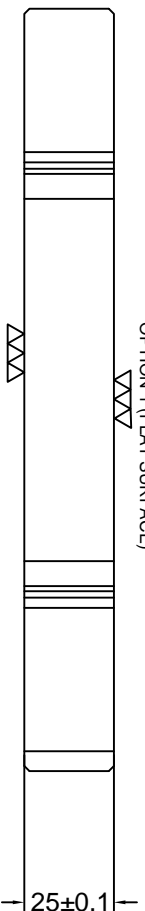
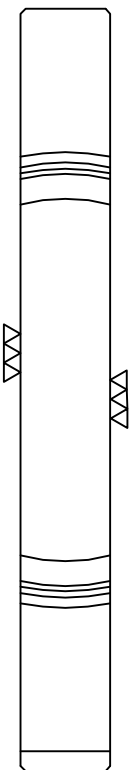


OPTION 1 (FLAT SURFACE)




OPTION 2 (CIRCULAR SURFACE)



Notes:


- 1.- Engrave "TSH-GD-09.0002 Rev.. Pos"
- 2.- Engrave Thread, Seal and shoulder. Words shall be 0.8mm deep.
- 3.- Material: Thyrodur 2990 Heat treatment:
- a) Stress Relief at 650°C X 2 hours, as an intermediate step between machining and grinding.
- b) Vacuum quenching since a temperature of austenitising 1070- 1080 °C at room temperature
- c) Cooling: Subzero up to -80°C and then tempered twice at 520°C, Hardness requested 58-60 HRC
- 4.- Serial Number- (according to the supplier identification)
- 5.- Taper surfaces for thread and seal axes shall be perpendicular to the reference surface.
- 6.- Dimensions S, Ref 4.00, T, ATP, SS, Angle TA and TB shall be certified.
- 7.- The Corrosion Protection and Packaging shall be according to TenarisConnections specification.
- 8.- The Certificate shall be according TenarisConnections specification.

All the changes do not affect the functionality of the Standards made with previous revisions.

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MODIFICATIONS						OBJECT:	
Rev	Description	Draw	Chk	App	Date	TenarisHydril MS - MS XT/XC	
03	Changed S values	JPA	ELT	NCR	12/16/17	DETAIL:	
02	Changed T and T reference	JPA	ELT	NCR	16/16/10	Box Seal and Thread Std - 6 5/8" to 14"	
01	New Issued	JPA	ELT	NCR	11/10/09		
Scale:	NOT	Date:	01/10/09			DRAWING N.:	
Drawn by: JPA		Checked by: ELT		Approved by: NCR		TSH-GD-09.0002	
						R E V. N. page 03 1/2	

Position	Diameter	TA	T or ØT	ATP (ref.)	M	R	STP	TB	S or ØS	SS	SR	SW	SZ	SL
1	6 5/8"	92.434	165.300	46.250	0.006	169	38.2	92.434	159.797	107.820	60	269	16	149.3
2	7" CT4-8072	92.434	174.800	46.250	0.006	179	38.2	92.434	168.947	111.820	60	279	16	149.3
3	7" CT4-8759	92.434	174.800	46.250	0.006	179	38.2	92.434	168.838	111.820	60	279	16	149.3
4	7 5/8"	92.434	190.700	46.250	0.006	195	38.2	92.434	184.447	116.820	60	295	16	149.3
5	7 3/4"	92.434	193.850	46.250	0.006	198	38.0	92.434	187.538	116.820	60	298	16	149.3
6	8 5/8"	92.434	216.100	46.250	0.006	220	38.2	92.434	209.547	119.820	70	340	16	159.3
7	9 5/8"	92.434	241.500	46.250	0.006	246	38.2	92.434	234.940	119.820	70	366	16	159.3
8	9 7/8"	92.434	247.800	46.250	0.006	252	38.2	92.434	241.140	119.820	70	372	16	159.3
9	10 3/4"	92.434	270.100	46.250	0.006	274	38.2	92.434	263.540	119.820	70	394	16	159.3
10	11 3/4"	92.434	295.500	46.250	0.006	300	38.2	92.434	288.940	119.820	80	440	16	169.3
11	11 7/8"	92.434	298.600	46.250	0.006	303	38.2	92.434	292.040	119.820	80	443	16	169.3
12	13 3/8"	92.434	336.700	46.250	0.006	341	38.2	92.434	330.140	119.820	80	481	16	169.3
13	13 1/2"	92.434	339.900	46.250	0.006	344	38.2	95.711	333.288	119.830	80	484	16	169.3
14	13 5/8"	92.434	343.100	46.250	0.006	347	38.2	95.711	336.488	119.830	80	487	16	169.3
15	14"	93.576	351.600	38.250	0.009	356	25.2	95.711	338.528	139.830	80	496	26	166.0

Notes: - Tolerances S and T according drawing is for the manufacturing supplier
Tolerances S and T will be increased +/- 0.005 mm to the hubs due to uncertainty and wear usage.
- Each standard will be measured by the manufacture supplier and each hub once they are received
- No compensation values will be allowed. If the hub find tolerances out has to contact Tenaris Connections

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MODIFICATIONS						OBJECT:	
Rev	Description	Draw	Chk	App	Date	TenarisHydril MS - MS XT/XC	
03	Changed S values	JPA	ELT	NCR	12/16/10	DETAIL: Box Seal and Thread Std - 6 5/8" to 14"	
02	Changed T and T reference	JPA	ELT	NCR	6/16/10		
01	New Issued	JPA	ELT	NCR	1/1/09		
Scale: NOT		Date: 01/10/09		Approved by: NCR		DRAWING N.:	
Drawn by: JPA		Checked by: ELT					
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