REQUIREMENTS SHAFT DIAMETER:

THE HS20 HUBSHAFT BORE WILL BE 0.0002" TO 0.0008" IN DIAMETER OVER THE NOMINAL SHAFT SIZE AS SHOWN IN THE TABLE BELOW. THE TABLE ALSO SPECIFIES THE ACCEPTABLE SHAFT SIZE RANGE,

HOZU OHA	HSZO SHAFI DIAMEIEN SFECIFICALIONS	IT I CA I I ONO
NOMINAL	HS20 I.D (IN)	HS20 O.D (I.N)
5/8"	0.6252 - 0.6261	0.6261 0.6245 - 0.6250

.2 SHAFT RUNOUT.

TO MAINTAIN LONG BEARING AND TETHER LIFE THE SHAFT RUNOUT SHOULD BE LESS THAN 0.003" TIR SPECIAL ATTENTION SHOULD BE GIVEN TO INSTALLATIONS. THAT EMPLOY A PRESS-FIT OR SCREWED-ON STUB SHAFT ADAPTOR. THE SHAFT ADAPTOR SHOULD BE ALIGNED TO WITHIN 0.003" TIR USING A DIAL INDICATOR.

1.3 SHAFT LENGTH:

THE SHAFT LENGTH SHOULD EXTEND A MINIMUM OF 0. THE STANDARD TETHER, THE MINIMUM SHAFT LENGTH MOUNTING SURFACE AS SHOWN BELOW. 0.70" INTO THE HS20 HUB. WHEN USING FROM THE TETHER

I. 4 TETHER CONSIDERATIONS:

THE HOUSING OF THE HS20XII ENCODER MUST BE PREVENTED FROM ROTATING IN ORDER TO MAINTAIN ACCURACY. A GOOD TETHER WILL PREVENT ROTATION WHILE ALLOWING MOVEMENT IN THE RADIAL AND AXIAL DIRECTIONS. USE OF THE STANDARD TETHER THAT IS AVAILABLE WITH THE HS20XII ENCODER IS RECOMMENDED THIS TETHER HAS BEEN OPTIMIZED TO PREVENT ROTATION WHILE MINIMIZING THE DIACED ON THE BEARINGS DUE TO THE RADIAL AND AXIAL SHAFT MOVEMENTS. THEY CAN TOLERATE MOVEMENTS OF UPTO +0.005" RADIALLY AND ±0.050° AXIALLY REFER TO FIGUREI FOR TETHER MOUNTING HOLE LOCATION

0.86

minimum shaft length

0

PROCEDURE .I TETHER ATTACHMENT:

REV

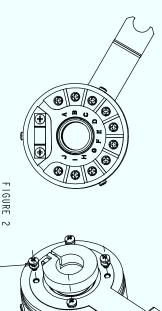
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APPROVED JRM JRM

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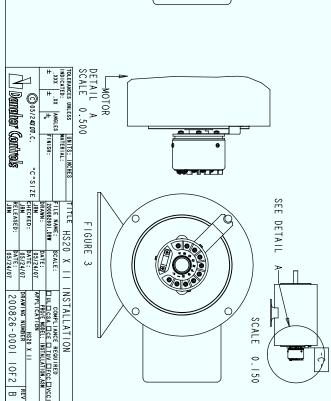
ATTACH THE TETHER TO THE ENCODER IN
THE POSITION SHOWN IN THE FOLLOWING FIGURE. SECURE THE TETHER TO THE
ENCODER USING THE (4) #4-40 X 1/4 " LONG SCREWS PROVIDED. CARE
MUST BE TAKEN NOT TO EXCEED 8-10 IN-LBS TORQUE ON THE TETHER SCREWS.



2 TETHER MOUNTING SCREWS

2.2 HS20XII - MOTOR ATTACHMENT:

REMOVE STANDARD MOTOR COVER, IF ANY (RETAIN EXISTING COVER SCREWS). SLIDE THE ENCODER ONTO THE MOTOR SHAFT AND POSITION ENCODER ONTO THE MOTOR FACE. MAKE SURE THE ENCODER COLLAR DOES NOT RUB AGAINST THE MOTOR FACE. TIGHTEN THE HEXSCREW OF THE ENCODER COLLAR USING A 7/64" DRIVER TO GRASP FIRMLY TO THE MOTOR SHAFT SHAFT



lether

mounting hole-

