

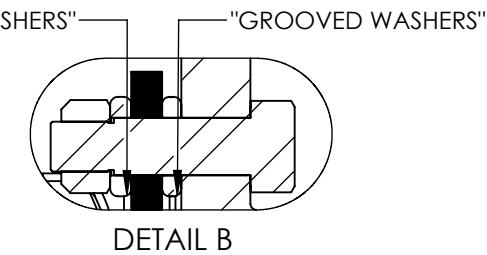
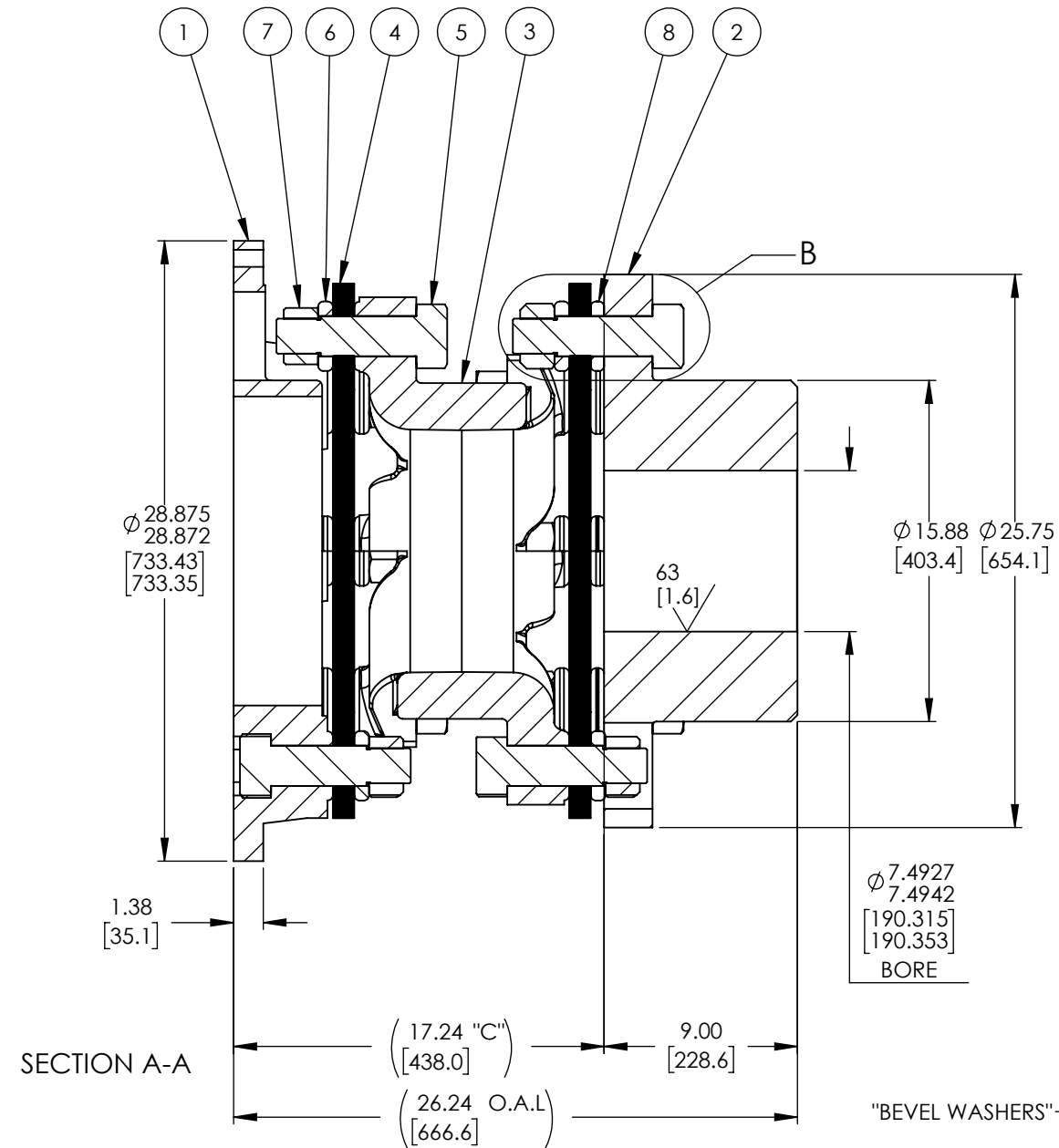
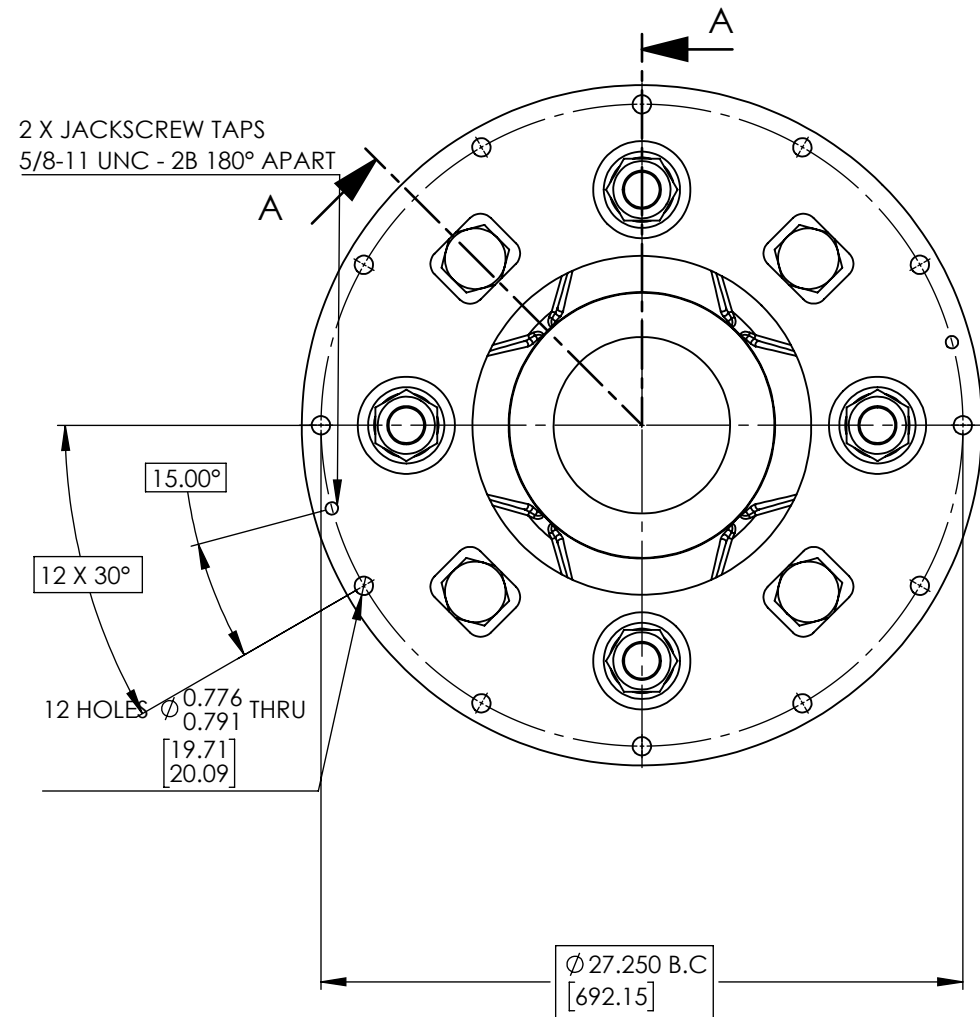
**FLYWHEEL END**  
**Engine**  
**(Waukesha 16V275GL)**  
**28.875 in - LD**

**HUB END**  
**Compressor**  
**(Ariel JGC/6)**  
**KEYWAY NONE**

A. TORSIONAL DATA (CALC.)  
 WT = 1346.6 lbs [ 610.8 kg]  
 $WR^2 = 108951.3 \text{ lbs-in}^2 [31.88 \text{ kg-m}^2]$   
 $Kt = 3.31E^{\wedge}8 \text{ in-lbs/rad} [3.74E^{\wedge}7 \text{ Nm/rad}]$   
 (BASED ON 1/3 SHAFT PENETRATION FACTOR IN HUB)

B. COUPLING TORQUE RATINGS  
 MAXIMUM CONTINUOUS = 1281280 in-lbs [144647 Nm]  
 PEAK OVERLOAD = 1537536 in-lbs [173576 Nm]

C. OPERATING DATA  
 POWER = 4835 HP [3605.5 kW]  
 SPEED = 1000 RPM  
 TORQUE = 304726 in-lbs [34432.5 Nm]  
 SERVICE FACTOR = 4.2



REFERENCE ONLY:  
 SHAFT SIZE:  $\phi 7.5000/7.4990 [190.500/190.475]$   
 RESULTING SHAFT/BORE INTERFERENCE FIT=  $0.0048/0.0073 [0.122/0.185]$   
 AVAILABLE SHAFT LENGTH=  $9.00 [228.6]$

**ASSEMBLY CAUTION NOTE:**

IT IS IMPORTANT THAT ALL LOOSE WASHERS ARE INSTALLED IN THEIR CORRECT POSITION:  
 \* THE 4 "GROOVED WASHERS" MUST BE INSTALLED BETWEEN HUB FLANGE FACE AND DISC PACK AS SHOWN - SEE "DETAIL B",  
 \* THE 16 "BEVEL WASHERS" MUST BE INSTALLED ON ALL FLEX JOINT BOLTS (ONE UNDER EACH LOCKNUT) AS SHOWN - SEE "DETAIL B".

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	MATERIAL	COMMENTS
8	56641	GROOVE WASHER	4	1144 SRA 100 STRESSPROOF	"SEE ASSEMBLY CAUTION NOTE"
7	13898	LOCKNUT	16	IFI GRADE C	
6	11043	BEVEL WASHER	16	1144 SRA 100 STRESSPROOF	"SEE ASSEMBLY CAUTION NOTE"
5	13897	BOLT	16	SAE GRADE 8	
4	20958	DISC PACK	2	TOMALOY	LAMINATION THK.: 0.984/1.014 [24.99/25.76]
3	20956	CENTERMEMBER	1	ASTM A-27-65 CLASS 70-36 (CAST STEEL)	
2	57132	HUB	1	AISI 1146 OR 1141 OR 1045	
1	52449-01	ADAPTER	1	DUCTILE IRON	

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THIRD ANGLE PROJECTION	INCH [mm]	DR. DRV_WRKS	1/2/2023	COUPLING ASSEMBLY	DRAWING NO. S00117027
		CHK.		925 CMR	REV. -
				STANDARD	SAP MTL 10402565
					ORDER NO. SHEET 1 OF 1