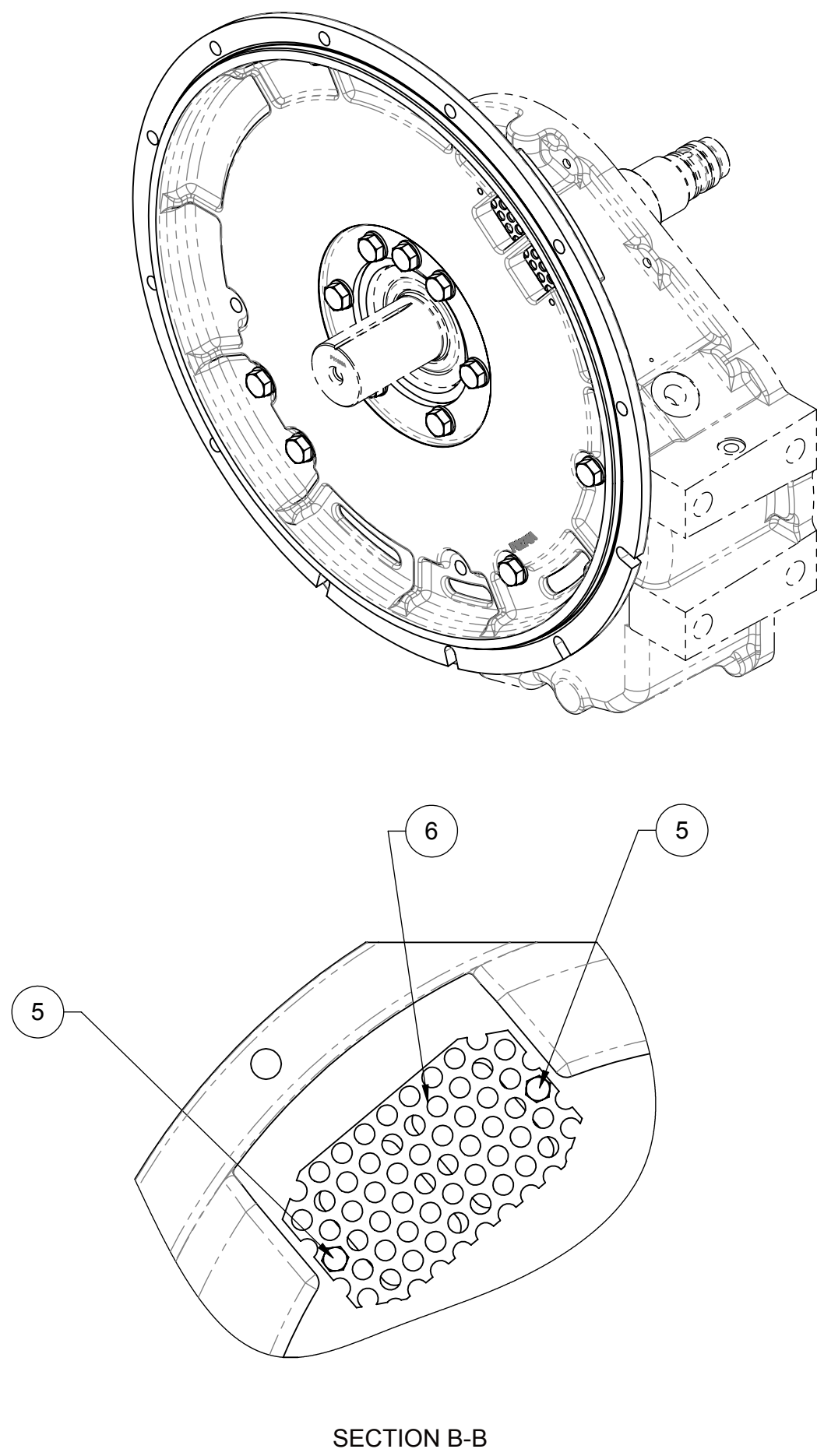
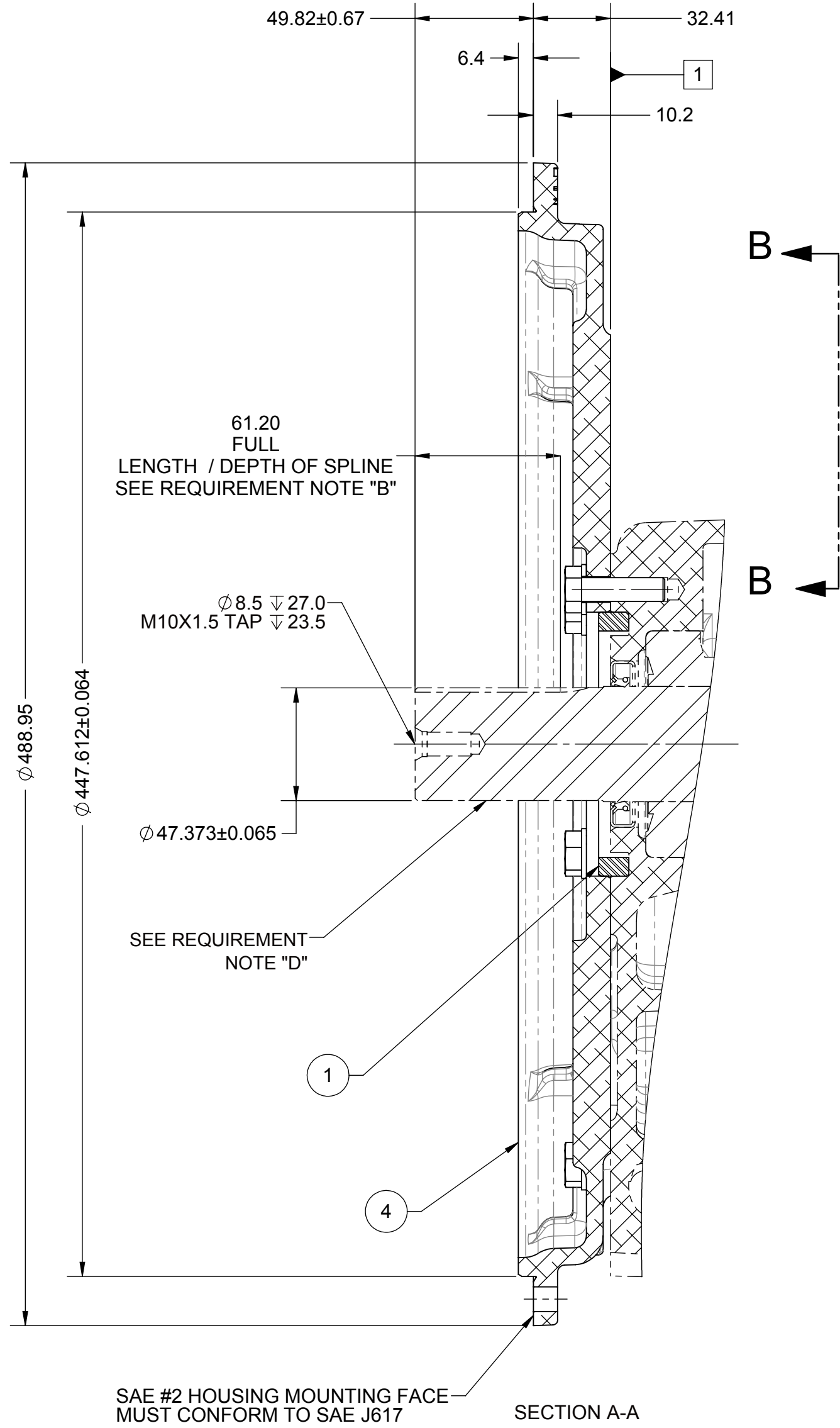
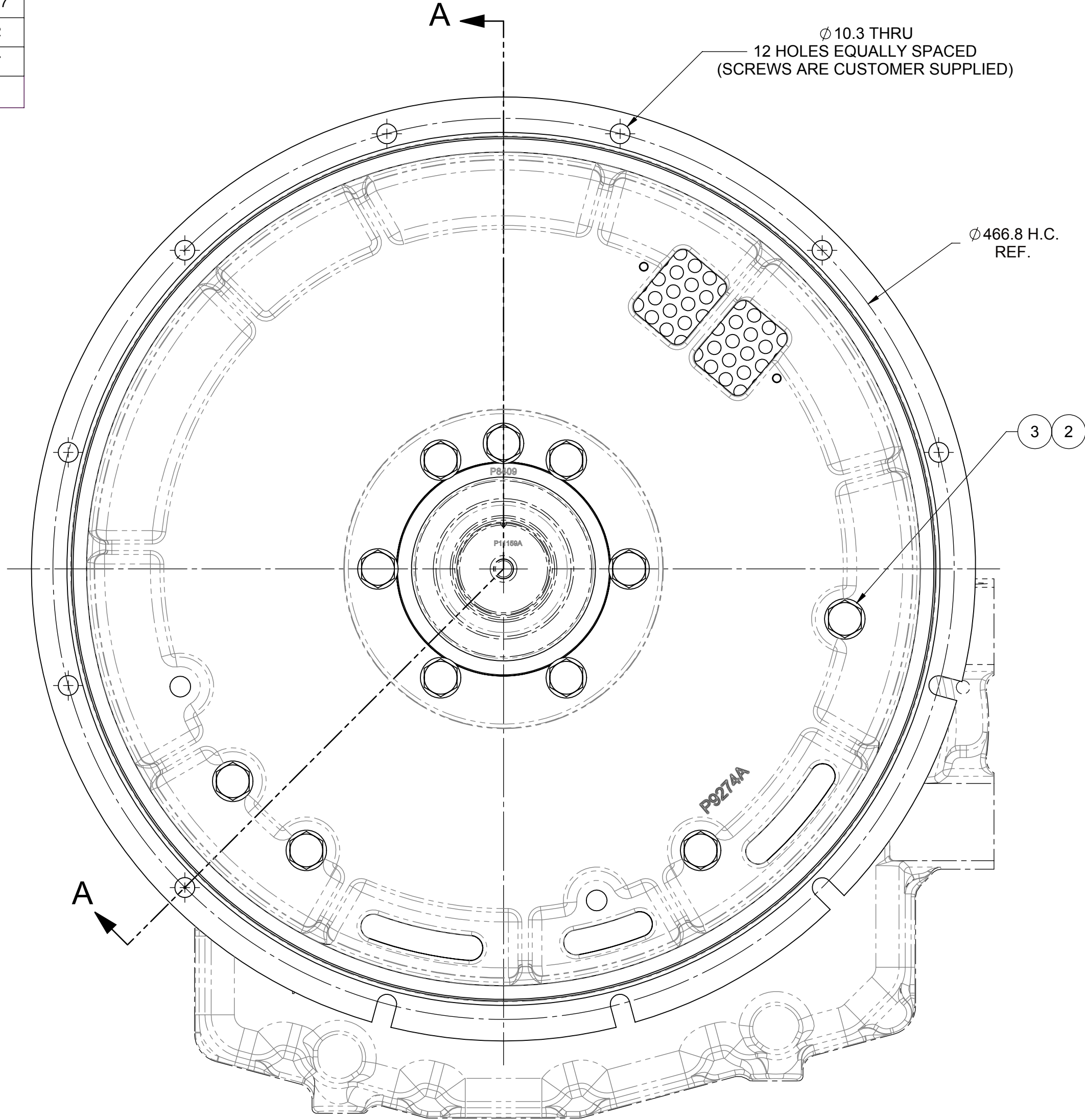


INTERNAL SPLINE DATA		(REF) TWIN DISC ENGR. STD. S435	
ROOT FLAT	PRESSURE ANGLE		30 °
NO. OF TEETH	29	PITCH	16/32
PITCH DIA (REF)	1.8125	FORM DIA. MIN.	1.879
MAJOR DIAMETER MAX.		1.901	
CIRCULAR SPACE WIDTH	MIN. EFF.	.0984	
	MAX. ACT.	.1007	
MEASUREMENT BETWEEN .1080 DIA. PINS WITH NONE TO FLAT		MIN. REF.	1.6562
		MAX. ACT.	1.6587
SPLINE DATA IN INCHES			

1 INPUT GROUP REFERENCE PLANE



BILL OF MATERIAL			
ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	P8409	RING
2	11	PM1357F	SCREW, HEX HEAD
3	11	PM2057AA	WASHER
4	1	P9274A	FLANGE, PILOT
5	2	PM5967B	SCREW, HEX HEAD
6	1	P11570B	COVER

GENERAL NOTES:

- CONSULT DISTRIBUTOR INFORMATION BULLETIN DIB 04-0211 FOR ADDITIONAL REQUIREMENTS AND LIMITATIONS FOR APPLICATIONS UTILIZING THIS INPUT GROUP CONFIGURATION.
- DISREGARDING PROPULSION SYSTEM TORSIONAL COMPATIBILITY COULD CAUSE DAMAGE TO COMPONENTS IN THE DRIVE TRAIN RESULTING IN LOSS OF MOBILITY. AT MINIMUM, SYSTEM INCOMPATIBILITY COULD RESULT IN GEAR CLATTER AT LOW SPEEDS. THE RESPONSIBILITY FOR ENSURING THAT THE TORSIONAL COMPATIBILITY OF THE PROPULSION SYSTEM IS SATISFACTORY RESTS WITH THE ASSEMBLER OF THE DRIVE AND DRIVEN EQUIPMENT. TORSIONAL VIBRATION ANALYSIS CAN BE MADE BY THE ENGINE BUILDER, MARINE SURVEY SOCIETIES, INDEPENDENT CONSULTANTS AND OTHERS. TWIN DISC IS PREPARED TO ASSIST IN FINDING SOLUTIONS TO POTENTIAL TORSIONAL PROBLEMS THAT RELATE TO THE EQUIPMENT OF TWIN DISC INCORPORATED'S SUPPLY.
- TWIN DISC IS NOT RESPONSIBLE FOR THE DESIGN AND WORKMANSHIP FOR INPUT COUPLING/FLANGE ASSEMBLIES NOT SUPPLIED BY TWIN DISC.
- AFTER ASSEMBLY OF THE MARINE TRANSMISSION WITH THE INPUT COUPLING/FLANGE ASSEMBLY ONTO THE ENGINE, VERIFICATION THAT ENGINE FLYWHEEL ENDPLAY EXISTS MUST BE MADE IN ACCORDANCE WITH THE ENGINE MANUFACTURERS REQUIREMENTS/INSTRUCTIONS.
- SURVEY SOCIETY APPROVAL/UNIT CERTIFICATION FOR THE INPUT COUPLING/FLANGE ASSEMBLY UTILIZED ON THE MARINE TRANSMISSION IS THE RESPONSIBILITY OF THE SUPPLIER OF THE INPUT COUPLING/FLANGE ASSEMBLY.

ASSEMBLY INSTRUCTIONS:

- FOR MG-5065A & MG-5065SC SEE S570DU SECTION I. FOR INSTRUCTION
- FOR MGX-5065A & MGX-5065SC SEE S570DT SECTION I. FOR INSTRUCTION
- ALL FASTENERS, FITTINGS AND PLUGS TO BE TORQUED PER S574

APPLICABLE MODELS:

- MG-5065A PER PX11165B
- MG-5065SC PER PX11480A
- MGX-5065A PER PX12370A
- MGX-5065SC PER PX12410A

REQUIREMENT NOTES:

- THE INPUT COUPLING/FLANGE ASSEMBLY MUST HAVE A MINIMUM OF 3 mm CLEARANCE FROM THE SAE HOUSING ADAPTER SUPPLIED WITH THE MARINE TRANSMISSION. REFER TO 1026552D (MG-5065A) INSTALLATION DRAWING/MODEL FOR USE IN DETERMINING THE REQUIRED CLEARANCE FROM THE SAE HOUSING ADAPTER. THIS INSTALLATION DRAWING/MODEL MIGHT NOT HAVE THE EXACT CUSTOMER'S CONFIGURATION BUT WILL PROVIDE THE NECESSARY INFORMATION FOR THE DETERMINATION OF THE MINIMUM CLEARANCE.
- THE MATING INTERNAL SPLINE FOR THE INPUT COUPLING/FLANGE ASSEMBLY MUST MAINTAIN FULL LENGTH OF ENGAGEMENT WITH THE EXTERNAL SPLINE FOR ALL OPERATING CONDITIONS.
- THE MARINE TRANSMISSION IS MANUFACTURED AND SHIPPED WITHIN THE FOLLOWING SPECIFIED RUNOUT VALUES AS MEASURED FROM THE INPUT SHAFT:
 - 0.25 mm (0.010 in) MAX RUNOUT TO THE FACE OF THE SAE HOUSING ADAPTER
 - 0.20 mm (0.008 in) MAX RUNOUT TO THE PILOT OF THE SAE HOUSING ADAPTER
- THE COUPLING/FLANGE ASSEMBLY'S INTERNAL SPLINE MUST BE PRODUCED TO THE INTERNAL SPLINE DATA PROVIDED ON THIS DRAWING.
- THE MINIMUM HARDNESS FOR THE MARINE TRANSMISSION'S INPUT SHAFT EXTERNAL SPLINE IS HRC 56.
- REFER TO TWIN DISC'S "MARINE PRODUCT GUIDE" FOR POWER RATING AND SPEED LIMITATION THAT ARE APPLICABLE TO THE MARINE TRANSMISSION.
- THE SPECIFICATIONS OF THIS DRAWING ARE VALID FOR CLOSED COUPLED INSTALLATION ONLY.
- FOR FREE STANDING INSTALLATION, APPROVAL BY TWIN DISC'S APPLICATION ENGINEERING GROUP IS REQUIRED. WHEN SUBMITTING FOR FREE STANDING APPROVAL, THE FOLLOWING MAXIMUM VALUES ARE REQUIRED:
 - AXIAL LOAD INDUCED ONTO THE MARINE TRANSMISSION'S INPUT SHAFT
 - RADIAL LOAD (INCLUDING LOCATION) INDUCED ONTO THE MARINE TRANSMISSION'S INPUT SHAFT
- INNER PARTS WR² : 0.0004 kg.m²
- REFER TO THE APPROPRIATE MARINE TRANSMISSION'S MASS ELASTIC DATA DRAWING FOR ALL OTHER MASS ELASTIC INFORMATION.

FIRST USE ASSEMBLY:PX12370A	WEIGHT: 6.8kg
FIRST USE MODEL: MGX-5065A	WR ² : kg-m
SIMILAR TO: 1026866AD	
METRIC	
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THIS NOTICE IS NOT INTENDED TO NULLIFY OR LIMIT RIGHTS GRANTED TO THE U.S. GOVERNMENT OR OTHERS BY CONTRACT.	

DATE: 08/27/2019	SCALE: 1:2
DRAWN BY: PJ	CHECKED BY: DV
APPROVED BY: DV	DWG SIZE: A1

REV	CHANGE NO.	DATE
-	NDWF-010914	08/30/2019

TWIN DISC		
RACINE, WI 53403 - USA		
1026866AE		
SHEET: 1 OF 1	REV: -	