

# Sae J498b Class 2

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### **Sae J498b Class 2**

Involute at root class 1 Side 't spline SAE J498b 22.4 [.88] Min full spline 31.7 [1.25] 11 Tooth 16/32 DP 30° Involute Flat Root Class 1 Side 't spline SAE J498b 22.2 [.88] Full Depth 4.8 [.19] Dia. 19.047±.003 [.7499±.0001] 31.7 [1.25] Key 4.724±.038 [.1860±.0015] 5/8 inch 9 tooth spline

### **Technical catalog**

Purpose and Scope— It is the purpose of this portion of the standard to provide guidance and data for the design of straight (nonhelical) involute spline teeth, to present dimensions for splines of recommended pitches, also a methodical treatment of

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manufacturing errors and their effect on the fit between mating splined parts. Spline Tooth Dimensions— Tabulated dimensions cover a range ...

### **SAE J498 : INVOLUTE SPLINES, SERRATIONS, AND INSPECTION**

SAE J498 did not have the total range of spline pitches that ANSI B92.1 did. Also the internal only had one size the external was class1 & class2, B92.1-19xx had class 4,5,6 & 7 for both internal & external. SAE was only 30°PA, B92.1-19xx also covered 37½° & 45° splines, formerly 45°, were referred as "Serrations".

### **How does SAE J498b relate to ANSI B92.1 - Gear & Pulley**

...

SAE Class 2 Warning Lights SAE Class 2 Warning Lights are commonly used on utility and service vehicles moving at or below the speed of traffic. Candela values in this class range

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from 1981 cd to 8099 cd-s/m. Vehicles that are slow-moving or blocking traffic typically have warning lights with a candela value close to 4,500. SAE Class 2 lights ...

### **SAE Warning Light Classification Explained**

Top Port: 1-1/2" SAE Flange Rear Port: SAE-24 O-Ring INLET  
PORT 1-7/8-12 UN-2B ST.THREAD O-RING SAE-24 38.10 (1.50) Ø  
35.10 (1.50) A139 Parker Hannifin Corporation Hydraulic  
Pump/Motor Division Greeneville, TN 37745 USA A Hydraulics  
Catalog HY13-1550-002/US Variable Volume Piston Pumps  
Technical Information Series PAVC 31.49 43.18 (1.24) (1.70)

### **Catalog HY13-1550-002/US Variable Volume Piston Pumps**

...

SAE CODE PCD Bolt Hole Diameter (P) Pilot Diameter AA 3.25  
0.406 2.00 A 4.187 0.437 3.25 B 5.75 0.562 4.00 C 7.125 0.687  
5.00 D 9.00 0.812 6.00 E 12.50 1.062 6.50 SAE CODE PCD Bolt

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Hole Diameter (P) Pilot Diameter B 5.000 0.562 4.00 C 6.375  
0.562 5.00 D 9.000 0.812 6.00 E 12.500 1.062 6.50 SAE PUMP  
MOTOR MOUNTING FLANGES AND SHAFTS . SAE TWO ...

### **SAE PUMP MOTOR MOUNTING FLANGES AND SHAFTS**

Spline Details . Nominal DIA (ND) Total Length (TL) AA : 9T 20/40  
DP . 0.500 : 1.062 . A : 9T 16/32 DP . 0.625 : 1.250 . AH : 11T  
16/32 DP . 0.750 : 1.490 . B : 13T ...

### **SAE PUMP AND MOTOR MOUNTING FLANGE AND SHAFT DIMENSIONS ...**

1) shear or 2) bearing. The torque capacity per unit length of an SAE spline is based on a 1,000 psi bearing stress on the sides. Depending on the class of fit, a spline is able to accommodate axial movement along the shaft and still transmit torque.

### **Splines - Mechanical Engineering**

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The Standard has only one fit class for all side fit splines; the former Class 2 fit. Class 1 fit has been deleted because of its infrequent use. The major diameter of the flat root side fit spline has been changed and a tolerance applied to include the range of the 1950 and the 1960 standards.

### **SPLINES AND SERRATIONS - Autodesk**

This SAE Recommended Practice SAE J2847-2 establishes requirements and specifications for communication between Plug-in Electric Vehicle (PEV) and the DC Off-board charger. Where relevant, this document notes, but does not formally specify, interactions between the vehicle and vehicle operator. This

### **J2847/2: Communication Between Plug-In ... - SAE International**

ANSI B92.1 These splines or multiple keys are similar in form to

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internal and external involute gears. In general manufacturing external splines is facilitated either by hobbing, rolling, or on a gear shaper, and internal splines either by broaching or on a gear shaper.

### **Involute Spline ANSI B92.1 Equations and Design ...**

The SAE classification system for warning lights is a classification of light intensity designed to help determine the best application for the lighting unit. CLASS 3 WARNING LAMPS Warning lights in the Class 3 designation have approximately 40% of the minimum intensity of Class 2 warning lights. Class 3 products are typically used inside of...

### **What is the difference between SAE Class 1, SAE Class 2**

...

SAE A Splined shaft Class 1-J498b 30° press. angle flat root side fit 16/32 d.p 9 teeth Shaft Code 11 Class 1-J498b Splined shaft

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30° press. angle flat root side fit 16/32 d.p 11 teeth Shaft Code 4  
16/32 d.p 13 teeth SAE B Splined shaft flat root side fit Shaft  
Code 1 (4.75/4.70) KEY 0.187/0.185

### **HIGH PERFORMANCE VANE PUMP VT6B - Veljan**

SAE J498 INVOLUTE SPLINES, SERRATIONS, AND INSPECTION  
inactive Buy Now. Details. History. Organization: SAE: Status:  
inactive: Document History. SAE J498 INVOLUTE SPLINES,  
SERRATIONS, AND INSPECTION A description is not available for  
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### **SAE J498 - INVOLUTE SPLINES, SERRATIONS, AND INSPECTION ...**

Class 1 Side Fit Spline SAE J498b This unit will accept another  
unit with an SAE "B" Auxiliary Mounting Flange and a 22,4 [.88]  
Dia. 41 Tooth, 48/96 DP 45 involute fillet root, class 1, side fit  
spline. Maximum Torque 316,4 N•m [2800 lbf•in] 85,6 [3.37]



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75,4 [2.97] Auxiliary Port (C2)

### **c Variable Displacement Piston Pump s Manual Controlled**

...

class 1-flat root side fit j498b - pitch 16/32 15 teeth - 30°  
pressure angle keyed sae-b keyed iso 3019/2 e25m sae b  
involute spline data class 1-flat root side fit j498b - pitch 16/32  
13 teeth - 30° pressure angle shaft code 1 shaft code 2 shaft  
code 3 shaft code 4 sae bb involute spline data

### **Hydraulic Motors - Service Information M5B**

Added SAE 387, SAE 845, and SAE J1330 to Related Publications.  
b. Minor change to 3.2 Light Source text to match SAE 845 c.  
Clarified class rating of non-repetitive signals in the Lighting  
Identification Code section. d. Changed stability language in the  
photometry test section to match the language in SAE J845 e.

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### **Directional Flashing Optical Warning ... - SAE International**

Flat Root - Side It - Class 1 Ext. Involute Spline SAE J498B with major diameter modified 10 teeth - 16/32 Pitch - 30 deg Flat Root - Side It - Class 1 54 002 DCAT033-013 0 1 / 10.0 3 Ext. Involute Spine B 17x14xe9 DIN 5482 Ext. Involute Spline SAE J498B with major diameter modified 9 teeth - 16/32 Pitch - 30 deg Flat Root - Side It - Class 1 Ext ...

### **Zahnradpumpen Anfrage Gruppe 2 0117-pages09**

Class 5 spline in ANSI. The only pressure angle referred to. is 30°. There are just two classes of fit.. The internal spline have only one tolerance band (identical to a Class 5 ANSI spline). For Class 2, both external and internal splines have the same tooth thickness and space width dimensions as an ANSI Class 5 spline. For Class 1 splines, the ...

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### **A Comparison of ISO 4561/ANSI B92.2M-1980 With Older**

...

Seal class Modifications Cam ring for Design letter 5 - SAE J498b  
16/32-11 teeth 2 - SAE B 1 - SAE A 3 - SAE BB 4 - SAE C 5 S5 (for  
mineral oil and fire- resistant fluids) 4 S4 (for fire resistant  
fluids)-1 S1 (for minreal oil)-Y-Metric port connection, Omit for  
UNC 70.3 (4.29) 63.8 (3.89)

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