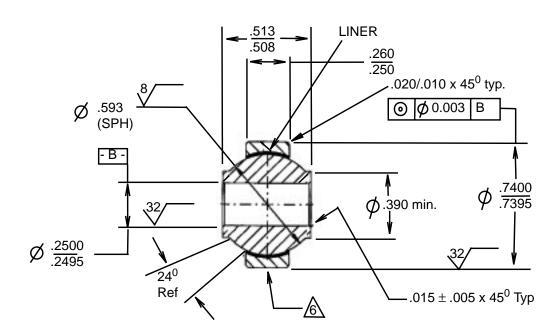
de HAVILLAND

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SOURCE CONTROL DRAWING

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SOURCE CONTROL DRAWING



★ DSC 568 BEARING IS DIMENSIONALLY EQUIVALENT TO DSC3-4-7 EXCEPT AS FOLLOWS:

BEARING REQUIREMENTS

1. MATERIALS:

OUTER RACE: 17-4PH STAINLESS STEEL PER AMS 5643, Rc 28-37

BALL: 440C PER AMS 5630, Rc 55-62

LINER: NON-PEELABLE, NON-FABRIC, MACHINEABLE HOMOGENEOUS COMPOSITE CONTAINING PTFE.

- 2. FINISH: BALL CHROME PLATE PER QQ-C-320, CLASS 2, SPHERICAL OD, 0.0005 - 0.0003 THK
- NO LOAD BREAKAWAY TORQUE = 0.1 IN LBS MAX. 3.
- 4. MAXIMUM CLEARANCE: RADIAL = 0.0008" AXIAL PLAY = 0.0035"
- 5. STATIC LIMIT LOADS: RADIAL = 6040 LBS, AXIAL = 430 LBS

CONTINUOUS DYNAMIC RADIAL LOAD = 2220 LBS MAX.



IDENTIFY, LASER MARK OR ELECTROLYTIC ETCH THE MANUFACTURER'S PART NUMBER AND DSC NUMBER ON THE OUTER RACE OF THE BEARING

LINER CHARACTERISTICS

LINER SHALL MEET THE AS81820 REQUIREMENTS EXCEPT AS FOLLOWS:

- CONFORMITY PER PARAGRAPH 3.4.4.2 & 3.4.4.3 EXCEPT: 7.
 - NORMAL CONFORMITY H/10 THICKNESS TO BE .008" .018",
 - MIDPOINT TO OCCUR BETWEEN THE H/10 POSITIONS NOT TO EXCEED .030",
 - MINIMUM LINER THICKNESS .008",
 - CIRCUMFERENTIAL CONFORMITY VARIATION IN THE MEASURED VALUES NOT TO EXCEED .006".
- 8. MIXTURE OF PTFE SHALL BE INCLUDED IN THE LINER SYSTEM TO ENABLE EXTREMELY LOW COEFFICIENT OF FRICTION (COF) LEVELS OF 0.15

SEE ENGINEERING STANDARDS APPROVAL RECORD FOR ORIGINAL SIGNATURES AND CHANGE SUMMARY

DRAWN	B. EDWARDS	TITLE:	DSC 568
CHECKED	U. GOLAN	BEARING, PLAIN, SELF-	DSC 300
STRESS	B. YOUNG	LUBRICATING, SELF-ALIGNING,	DA 05 4 05 0
APPROVED	U. GOLAN	LOW TORQUE, LOW FRICTION	PAGE 1 OF 3

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- 9. OPERATING TEMPERATURE RANGE 100° F TO + 300° F (- 73 TO + 149° C)
- 10. THE LINER SURFACE SPEED APPLICATION UP TO 10 FEET PER MINUTE (FPM).

BEARING QUALIFICATION CRITERIA

- 11. MAX. COF OF 0.18 SHOULD BE TESTED UNDER 14,000 PSI AT AMBIENT TEMPERATURE AND AT LOW TEMPERATURE OF 70°F.
- 12. MAX. COF OF 0.15 SHOULD BE MEASURED ON THE NEW BEARING THROUGHOUT THE OPERATING LOAD RANGE AT AMBIENT TEMBERATURE AND AT LOW TEMPERATURE OF -65°F (-54°C).
- RUNNING COEFFICIENT OF FRICTION (DYNAMIC COF) IS REQUIRED TO BE AS CLOSE AS POSSIBLE TO STATIC COF.
- 14. MAX. TOTAL DEFLECTION .010" UNDER RADIAL STATIC LIMIT LOAD.
 - NO PERMANENT SET DEFORMATION GREATER THAN .0035"
 - (AFTER THE LOAD APPLIED FOR 3 MINUTES).
- 15. AT ULTIMATE STATIC (RADIAL & AXIAL) LOADS; (ULT= 1.5 LIMIT)
 - BEARING COMPONENTS SHALL REMAIN INTACT WITH THE OUTER RACE IN PLACE (NO PUSH OUT OF THE BALL)
 - RACE OR BALL FRACTURE SHALL NOT OCCUR.
 - PLASTIC DEFORMATION IS ALLOWED
 - LOCAL LINER DISTRESS MAY OCCUR.
- 16. LINER MUST BE BONDED TO THE OUTER RACE.
- 17. THE BEARING AND BALL MUST BE FINGER MOVABLE THROUGH THE ENTIRE MISALIGNMENT ANGLE RANGE.

QUALIFICATION TEST

- 18. SUPPLIER SHALL SUBMIT A QUALIFICATION TEST PROCEDURE PLAN FOR BOMBARDIER APPROVAL.
- 19. FOR ENDURANCE TESTING THE SUPPLIER MAY SHOW THAT BEARING DSC 568-4 IS QUALIFIED BY SIMILARITY TO THE ENDURANCE TESTING OF BEARING DSC 567-4 PER PARAGRAPH 19 OF DSC 567.
- 20. THE SUPPLIER SHALL SUBMIT A QUALIFICATION TEST REPORT VALIDATING THE BEARING MEETS ALL OF THE ABOVE REQUIREMENTS.

SEE ENGINEERING STANDARDS APPROVAL RECORD FOR ORIGINAL SIGNATURES AND CHANGE SUMMARY

DRAWN	B. EDWARDS	BEARING, PLAIN, SELF-		DEC
CHECKED STRESS	U. GOLAN B. YOUNG	LUBRICATING, SELF-ALIGNING,		/ A 16
APPROVED	U. GOLAN	LOW TORQUE, LOW FRICTION	PAGE 2	RFV:

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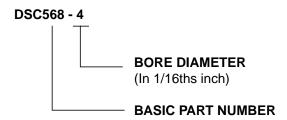
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PART NUMBER BREAKDOWN:



DSC P/N	APPROVED VENDOR	
D3C F/N	KAMATICS CORPORATION	
DSC568-4	KSC414204VS	

VENDOR ADDRESS AND CAGE CODE:

KAMATICS CORPORATION, BLOOMFIELD CT.- CAGE CODE 50632

PROCUREMENT INFORMATION:

PROCUREMENT DEPARTMENT SHALL SPECIFY THE DSC NUMBER AND MANUFACTURER'S PART NUMBER ON THE PURCHASE ORDER

SEE ENGINEERING STANDARDS APPROVAL RECORD FOR ORIGINAL SIGNATURES AND CHANGE SUMMARY					
DRAWN	B. EDWARDS	TITLE:	DSC 568	28 /	
CHECKED	U. GOLAN	BEARING, PLAIN, SELF-	DSC 300		
STRESS	B. YOUNG	LUBRICATING, SELF-ALIGNING,	DAOE 0	18 18	
APPROVED	U. GOLAN	LOW TORQUE, LOW FRICTION	PAGE 3	AP	