



**GENERAL NOTES:**

- ① FLANGES AND SEALS ARE NOT FURNISHED WITH THESE COUPLING ASSEMBLIES. FOR CLARITY, THEY ARE SHOWN IN PHANTOM OUTLINE. SEAL MATERIAL IS SELECTED AND SEALS ARE SEPARATELY PROCURED BY USER. FOR ADDITIONAL INFORMATION, SEE NOTES B1 AND B2 UNDER "ORDERING INFORMATION".
- ② DIMENSION "G" DOES NOT INCLUDE ALLOWANCE FOR TUBE GROWTH DURING SWAGING.
- ③ PN 14C02-(SIZE)(MATL) CLAM-SHELL ASSEMBLY: MATERIAL/FINISH AS FOLLOWS:  
 CLAM-SHELL: A - 2024-T6, T851, T8510 OR T8511 AL PER AMS-QQ-A-225/6, AMS-QQ-A-200/3, AMS-WW-T-700/3, AMS 4120, AMS 4339, ASTM B210 OR ASTM B241, ANODIZED PER MIL-A-8625, TYPE II, CL 2, DYED MAGENTA.  
 C - 303 SERIES CRES, COND A PER ASTM A582, AMS 5638 OR AMS 5640, PASSIVATED PER AMS-QQ-P-35.  
 T - 6AL-4V TITANIUM ALLOY, COND A PER AMS 4928 OR AMS 4967 OR CP-70 TITANIUM, COND A PER AMS 4921  
 LATCH PAWLS, HINGES, RIVETS, LATCH SPRINGS: 300 SERIES CRES, PASSIVATED PER AMS-QQ-P-35.  
 BONDING SPRINGS: BERYLLIUM COPPER ALLOY WIRE PER ASTM B197, COND TD02 OR TD03, TIN PLATE PER ASTM B545, CLASS C.
- ④ PN 14R02-(SIZE)(MATL) SLEEVE: MATERIAL/FINISH AS FOLLOWS:  
 A - 2024-T6, T851, T8510, OR T8511 AL ALLOY PER AMS-QQ-A-225/6, AMS 4120, AMS 4339, AMS-QQ-A-200/3, AMS-WW-T-700/3, ASTM B211 OR ASTM B241, ANODIZE PER MIL-A-8625, TYPE I OR TYPE II, CLASS 1, DICHROMATE SEAL.  
 C - 303 CRES, COND A PER AMS 5638, AMS 5640 OR ASTM A582, PASSIVATE PER AMS-QQ-P-35, OR 304 CRES, COND A PER AMS 5560, AMS 5639, AMS-QQ-S-763, OR ASTM A376, PASSIVATE PER AMS-QQ-P-35.  
 T - CP-70 TITANIUM, COND A PER AMS 4901 OR AMS 4921, NO FINISH REQD. OPTIONAL: 6AL-4V TITANIUM, COND A PER AMS 4911, AMS 4928 OR AMS 4967, NO FINISH REQUIRED.
- ⑤ MARKING IF SOLD AS HYDRAFLOW PN PERMANENT INK STAMP AS SHOWN ON EITHER CLAM-SHELL HALF (.062" OR LARGER CHARACTERS):  
 HYDRAFLOW (LOGO) 24984  
 14J02-(SIZE)(MATL)  
 DATE OF MFR (QTR & YR)  
 (SIZES -12 & SMALLER MAY BE INDIVIDUALLY BAGGED WITH A TAG CONTAINING THIS INFORMATION, BUT "24984" & "DATE OF MFR" MUST BE PERMANENT INK STAMPED ONTO THE ASSY AT ANY SUITABLE LOCATION.)
- IF ORDERED AS AS1652 PN:  
 MARK INDIVIDUAL COMPONENTS PER DRAWINGS 14C02 & 14R02 WITH "AS" PART NUMBER, BAG WITH A TAG CONTAINING THE FOLLOWING INFO.  
 HYDRAFLOW (LOGO) 24984  
 AS1652-(MATL)(SIZE)  
 DATE OF MFR (QTR & YR)
- 6. THE COUPLING ASSY HAS BEEN QUALIFIED AND MEETS THE REQUIREMENTS OF MIL-C-22263 AND AS1650.
- ⑦ MAX WEIGHT MEETS REQUIREMENTS OF AS1652. WEIGHT SHOWN DOES NOT INCLUDE FLANGES & SEALS.
- ⑧ MAX ENVELOPE MEETS REQUIREMENTS OF AS1651.
- 9. THESE PARTS MAY BE PURCHASED USING EITHER ONE-DIGIT OR TWO-DIGIT CODES ON THE HYDRAFLOW PART NUMBER. PARTS SHALL BE MARKED WITH THE HYDRAFLOW PART NUMBER AND SIZE CODE USED ON THE CUSTOMER PURCHASE ORDER OR WITH THE AS1652 PART NUMBER AND TWO DIGIT SIZE CODE AS REQUIRED. IF NOT SPECIFIED, THE TWO-DIGIT SIZE CODE SHALL BE USED. CERTS AND OTHER DOCUMENTATION ARE ACCEPTABLE USING EITHER DESIGNATION.

**A - DESIGN FEATURES:**

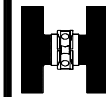
- A1. CLAM-SHELL CLOSURE LOCKS AUTOMATICALLY WHEN TWO HALVES ARE SNAPPED TOGETHER AND CAN NOT DISENGAGE ACCIDENTALLY SINCE ALL THREE LATCH PAWLS MUST BE LIFTED SIMULTANEOUSLY TO DISENGAGE THE LATCH.
- A2. QUICK DISCONNECT ACTION OF THE LATCH SIMPLIFIES AND FACILITATES ASSEMBLY AND REMOVAL BY ONE HAND.
- A3. VISUAL INSPECTION FROM DISTANCE PROVIDES POSITIVE INDICATION THAT THE CLOSURE IS FULLY ENGAGED AND SECURELY LOCKED.
- A4. THESE COUPLINGS ARE DESIGNED TO PERFORM AS STATED WITHIN AN ANGULAR MISALIGNMENT RANGE OF ±4° BETWEEN TUBE CENTERS AND AXIAL ADJUSTMENT OF 1/4" MINIMUM.
- A5. PRESSURE AND TEMPERATURE RATING:  
 PRESSURE: OPERATING: 125 PSIG MAX, PROOF: 250 PSIG MIN, BURST: 375 PSIG MIN.  
 TEMPERATURE FROM -65°F TO +450°F CRES & -65°F TO +200°F ALUMINUM.
- A6. ELECTRICAL BONDING TO CLASS "S" OF MIL-B-5087B IS AUTOMATICALLY PROVIDED WHEN COUPLING IS ASSEMBLED.
- A7. LIGHTNING PROTECTION IS PROVIDED TO AT LEAST 1500 AMPERES WHEN TESTED IN ACCORDANCE WITH MIL-STD-1757A TEST METHOD T03 USING CURRENT COMPONENT B WAVESHAP.

**B - ORDERING INFORMATION:**

- B1. COUPLING ASSEMBLY: 14J02-(SIZE)(MATL) ----- REF "AS" SPEC (AS1652)  
 CONSISTS OF: 14C02-(SIZE)(MATL) CLAM-SHELL ASSY -- (AS1655)  
 14R02-(SIZE)(MATL) SLEEVE ----- (AS1654)
- B2. FOLLOWING ITEMS SHOULD BE ORDERED SEPARATELY:  
 EXAMPLE: 14F02-(SIZE)(MATL) FLANGE 2 REQD ----- (AS1653)  
 AS568-(DASH NO.) O-RING SEAL 2 REQD
- B3. PART NUMBER CODE: **14J02-(SIZE)(MATL)**  
 DRAWING NUMBER \_\_\_\_\_  
 SIZE CODE- TUBE OD IN 16THS OF INCH \_\_\_\_\_  
 MATERIAL CODE \_\_\_\_\_  
 A - ALUMINUM ALLOY; C - CRES; T - TITANIUM

**C - INSTALLATION INSTRUCTIONS:**

- C1. SLIP SEALS INTO SEAL CAVITIES AND LUBRICATE LIGHTLY BOTH SEALS AND SLEEVE ID. SLIDE SLEEVE OVER ONE OF THE TWO FLANGES.
- C2. SLIDE SLEEVE OVER BOTH SEALS, USING SLIGHT ROCKING MOTION TO FACILITATE ENTRY. SLEEVE MUST SPAN BOTH FLANGES COMPLETELY.
- C3. INSTALL CLAM-SHELL ASSEMBLY OVER SLEEVE AND SNAP SHUT. WITH ALL THREE PAWLS FULLY ENGAGED, THE CLAM-SHELL IS AUTOMATICALLY LOCKED.
- C4. TO DISASSEMBLE, ALL THREE LATCH PAWLS MUST BE LIFTED SIMULTANEOUSLY TO REMOVE CLAM-SHELL ASSEMBLY. SLIDE SLEEVE IN EITHER DIRECTION UNTIL ONE OF THE FLANGES IS EXPOSED TO REMOVE A LINE ASSEMBLY.

 <b>HYDRAFLOW</b> 1881 W. MALVERN AVE. FULLERTON, CA. 92833-2403 TEL: (714) 773-2600 FAX: (714) 773-6351	CAGE NO. <b>24984</b>	DRAWING NO. <b>14J02</b>	REV. LTR. <b>AJ</b>
	SCALE NONE	WTNOTED LB REF	SHEET 2 OF 2

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CADD GENERATED DRAWING