
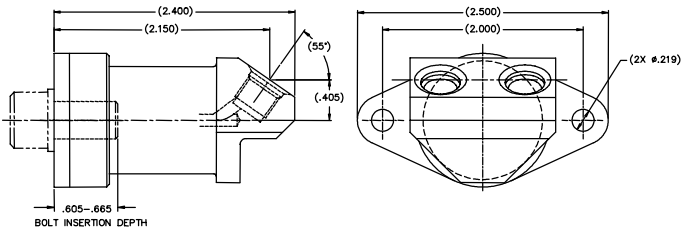




24225 GARNIER STREET • TORRANCE • CALIFORNIA 90505-5355 • U.S.A.
 TELEPHONES: (310) 784-2100 • (800) 733-0321 • FAX: (310) 326-0797
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SEPARATION NUT	Datasheet Page 1 of 2	Orig. issue: 28MAR01 Rev. B: 26MAR03
DEVICE	3/8 INCH Separation Nut	DISPOSITIF
TYPE	SN9421-3 series	REFERENCE
1. PERFORMANCES <ul style="list-style-type: none"> Design Load (limit) Tensile proof load capability Tensile strength (yield) Temperature capability Suggested pressure cartridge Function time Redundancy Principal release system 	12,700 lbf 12,000 lbf 15,200 lbf -90°F(-68°C) to +190°F(+88°C) PC23 (NSI equivalent) < 10 milliseconds Dual PC23 initiators+ PC154 boosters Threaded segments (3)	1. PERFORMANCES <ul style="list-style-type: none"> Tenue mecanique Résistance à la rupture Résistance mécanique (limite) Resistance de temperature Cartouche de pression Temps de fonctionnement Redondance Méthode lâché principe
2. MECHANICAL CHARACTERISTICS <ul style="list-style-type: none"> Weight Bolt insertion depth Shock output OPTIONAL FEATURES <ul style="list-style-type: none"> Cartridge manifold Bolt ejector Flange Reset Reusability Cycle MATERIALS <ul style="list-style-type: none"> Body Segments 	141 g 0.665 / 0.605 inch <5,000 g (2X) .375-24 UNJF-3B With or without bolt ejector With or without flange mounting Reset for pneumatic operation 20 - 100 Aluminum 7075-T7351 15-5 PH stainless steel	2. CARACTERISTIQUE MECANIQUE <ul style="list-style-type: none"> Masse Dans une épreuve de boulon Rendement de chocs Facultatifs grand reportage Cartouche multiple varié Boulon éjecter Collet Opération de Répétition Répéter MATERIAUX <ul style="list-style-type: none"> Corps Segments
BOLT TYPE	3/8- inch bolt	REFERENCE DE BOULON
TIGHTENING TORQUE	Load cell / strain gages	COUPLE DE SERRAGE
3. ELECTRICAL CHARACTERISTICS Separation Nut Drawing	28 V, 5A, 10KJ	3. CARACTERISTIQUE ELECTRIQUE
		



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4. PYROTECHNIC CHARACTERISTICS <ul style="list-style-type: none"> • Initiator type • Principal pyrotechnic load 	PC 23 (NSI equivalent) 114 mg ZPP	4. CARACTERISTIQUES PYROTECHNIQUES <ul style="list-style-type: none"> • Type d'initiateur • Charge pyrotechniques principale
5. ENVIRONMENTAL TEST SPECIFICATIONS <ul style="list-style-type: none"> • Mechanical shock • Random vibration • Humidity • Operating temperature • Storage life 	5,000 g (Pre-load dependent) 24 grms < 90% RH -90°F(-68°C) to +190°F(+88°C) 10 years	5. RESISTANCE AUX CONDITIONS D'ENVIRONNEMENT <ul style="list-style-type: none"> • Chocs mécaniques • Vibrations aléatoires • Humidité • Températures de fonctionnement • Durée de stockage
6. DEVELOPMENT STATUS <ul style="list-style-type: none"> - References: <ul style="list-style-type: none"> • Development date • Qualification test report • Last verification of qualification date - Flight applications: <ul style="list-style-type: none"> • Projects (planned) • Dates • Users 	1980's 1980's 1998 EOS, Mars,Pathfinder 1999 Mars Rover Boeing, NASA JPL, Lockheed	6. CONDITIONS DE DEVELOPPEMENT <ul style="list-style-type: none"> - Références: <ul style="list-style-type: none"> • Date du développement • Rapport de qualification • Contrôls de qualification ultérieurs - Applications spatiales: <ul style="list-style-type: none"> • Projets • Dates • Utilisateurs
SALES NUMBER IDENTIFICATION <p style="text-align: center;">SN 95 X X - X</p> <ul style="list-style-type: none"> 5th digit indicates Thread Size Dash No. (1/16 inch increment) 4th digit indicates type of base: <ul style="list-style-type: none"> 0 indicates non-captive base. 1 indicates captive, integral flange base, aluminum. 2 indicates captive, removable flange base. 3 indicate captive, integral flange base, steel. 3rd digit indicates number of Power Cartridges (Not required). 1st and 2nd digits indicate Low Shock Nut series. Indicates Separation Nut. 		
ORDERING EXAMPLE <p style="text-align: center;">SN 95 2 1 - 4</p> <ul style="list-style-type: none"> 1/2-20 UNF Thread Size. Captive, integral flange base, aluminum. 2 Power Cartridges (Not required for SN 9500). Separation Nut, Low Shock series. 		