

[INCH-POUND]  
A-A-59997/3  
14 May 2019

## COMMERCIAL ITEM DESCRIPTION

### CONICAL SEALS, CRUSH, 24 DEGREE FLARED TUBE FITTING KIT

The General Services Administration has authorized the use of this commercial item description for all federal agencies.

**SCOPE.** This commercial item description (CID) covers the general requirements for conical seals, crush, 24 degree flared tube fitting kit. Conical seals, crush, 24 degree flared tube fitting kit covered by this CID are intended for commercial/industrial applications.

The complete requirements for procuring conical seal, crush, 24 degree flared tube fitting kit described herein shall consist of this document and the issue in effect of A-A-59997.

**CLASSIFICATION/PART OR IDENTIFICATION NUMBER (PIN).** This CID uses a classification system, which is included in the PIN as shown in the following examples.

Kit PIN.

<u>AA59997/3</u>   <hr/> CID number	<u>-04</u>   <hr/> Kit designator See table II
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Refill kit PIN.

<u>AA59997/3</u>   <hr/> CID number	<u>-A</u>   <hr/> Material code See table III	<u>-24</u>   <hr/> SAE size See table I
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## SALIENT CHARACTERISTICS.

Interface and physical dimensions. Conical seals, crush, 37 degree flared tube fitting kits supplied to this CID shall be as specified herein.

Beneficial comments, recommendations, additions, deletions, clarifications, etc., and any data that may improve this document should be sent to: DLA Land and Maritime, ATTN: VAI, P.O. Box 3990, Columbus OH 432180-3990, or [fluidflow@dlamail](mailto:fluidflow@dlamail). Since contact information can change you may want to verify the currency of the address information using the ASSIST Online database at <https://assist.dla.mil>.

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See table I for SAE size code to connector size.

TABLE I. SAE size.

SAE size code	Connector size Ref.		SAE size code	Connector size Ref.
2	1/8		12	3/4
3	3/16		16	1
4	1/4		20	1-1/4
5	5/16		24	1-1/2
6	3/8		28	1-3/4
8	1/2		32	2
10	5/8			

Seals supplied in the kits shall be in accordance with A-A-59997/1, A-A-59997/2, or A-A-59997/3 as applicable.

Seal kits shall be supplied with the sizes and materials specified in accordance with table II.

Kit shall consist of a plastic box and one material type per box.

Seals shall be packaged in lots of 15.

Kit shall include seal selection chart and installation procedure inside box lid.

Box shall be marked with the CID PIN and the material letter (A, AT, N, NT, or NS, see note 1 at end of table II or table III).

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TABLE II. Flare seal kit and material dash code. <sup>1/</sup>

Kit dash code	SAE size code (see table I)											
	2	3	4	5	6	8	10	12	16	20	24	32
-01	A	A	A	A	A	A						
-02	A	A	A	A	A	A	A	A	A			
-03	A		A		A	A	A	A				
-04			A	A	A	A	A	A				
-05			A	A	A	A	A	A	A			
-06									A	A	A	A
-07	AT	AT	AT	AT	AT	AT						
-08	AT	AT	AT	AT	AT	AT	AT	AT	AT			
-09	AT		AT		AT	AT	AT	AT				
-10			AT	AT	AT	AT	AT	AT				
-11			AT	AT	AT	AT	AT	AT	AT			
-12									AT	AT	AT	AT
-13	N	N	N	N	N	N						
-14	N	N	N	N	N	N	N	N	N			
-15	N		N		N	N	N	N				
-16			N	N	N	N	N	N				
-17			N	N	N	N	N	N	N			
-18									N	N	N	N
-19	NT	NT	NT	NT	NT	NT						
-20	NT	NT	NT	NT	NT	NT	NT	NT				
-21	NT		NT		NT	NT	NT	NT	NT			
-22			NT	NT	NT	NT	NT	NT				
-23			NT	NT	NT	NT	NT	NT	NT			
-24									NT	NT	NT	NT
-25	NS	NS	NS	NS	NS	NS						
-26	NS	NS	NS	NS	NS	NS	NS	NS				
-27	NS		NS		NS	NS	NS	NS	NS			
-28			NS	NS	NS	NS	NS	NS				
-29			NS	NS	NS	NS	NS	NS	NS			
-30									NS	NS	NS	NS

<sup>1/</sup> A - Aluminum seal in accordance with A-A-59997/1.

AT - Aluminum tin-plated in accordance with A-A-59997/1.

N - Nickel seal in accordance with A-A-59997/2.

NT - Nickel tin-plated seal in accordance with A-A-59997/2.

NS - Nickel silver plated seal in accordance with A-A-59997/2.

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Refills for kits shall contain 15 seals, see table III.

TABLE III. Flare seal refill size and material code. 1/

Material code	SAE size code (see table I)											
	2	3	4	5	6	8	10	12	16	20	24	32
A	A	A	A	A	A	A	A	A	A	A	A	A
AT	AT	AT	AT	AT	AT	AT	AT	AT	AT	AT	AT	AT
N	N	N	N	N	N	N	N	N	N	N	N	N
NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

1/ A - Aluminum seal in accordance with A-A-59997/1.

AT - Aluminum tin-plated in accordance with A-A-59997/1.

N - Nickel seal in accordance with A-A-59997/2.

NT - Nickel tin-plated seal in accordance with A-A-59997/2.

NS - Nickel silver plated seal in accordance with A-A-59997/2.

Torque technique. These seals require a second torque technique; see A-A-59997 for torquing procedure.

## NOTES.

PIN. The PIN should be used for Government purposes to buy commercial products to this CID.

Source of documents.

## FEDERAL SPECIFICATIONS

- A-A-59997 - Conical Seal, Crush, 24 Degree Flared Tube Fitting, General Requirements For
- A-A-59997/1 - Conical Seals, Crush, 24 Degree Flared Tube Fitting, Aluminum Alloy
- A-A-59997/2 - Conical Seals, Crush, 24 Degree Flared Tube Fitting, Nickel

(Copies of these documents are available online at <https://quicksearch.dla.mil>.)

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Commercial products. As part of the market analysis and research effort, this CID was coordinated with the following manufacturers of commercial products. At the time of CID preparation and coordination, these manufacturers were known to have commercial products that would meet the requirements of this CID. (NOTE: This information should not be considered as a list of approved manufacturers or be used to restrict acquisition to only the manufacturers shown.)

<u>Vendor CAGE number</u>	<u>Vendor name and address</u>
33447	Seco Seals Inc. 1370 Logan Ave. Unit K Costa Mesa, CA 92626 714-546-3778 E-mail: <a href="mailto:secoseals@aol.com">secoseals@aol.com</a>
64162.	Del Aerospace, Inc. 921 Mountain View Ave A Oxnard, CA 93030-7227 E-mail: <a href="mailto:delaero@earthlink.net">delaero@earthlink.net</a>

Part number (P/N) supersession data. These CID PINs supersede the following MFR's P/N's as shown in table IV. This information is being provided to assist in reducing proliferation in the Government inventory system.

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TABLE IV. P/N supersession data.

Dash number (see table I) AA59997/3	MFR's CAGE	MFR's P/N <u>1/</u>	MFR's CAGE	MFR's P/N <u>1/</u>
/3-01	33447	SECO57-1	64162	DY24-01
/3-02	33447	SECO57-2	64162	DY24-02
/3-03	33447	SECO57-3	64162	DY24-03
/3-04	33447	SECO57-4	64162	DY24-04
/3-05	33447	SECO57-5	64162	DY24-05
/3-06	33447	SECO57-6	64162	DY24-06
/3-07	33447	SECO57-7	64162	DY24-07
/3-08	33447	SECO57-8	64162	DY24-08
/3-09	33447	SECO57-9	64162	DY24-09
/3-10	33447	SECO57-10	64162	DY24-10
/3-11	33447	SECO57-11	64162	DY24-11
/3-12	33447	SECO57-12	64162	DY24-12
/3-13	33447	SECO57-13	64162	DY24-13
/3-14	33447	SECO57-14	64162	DY24-14
/3-15	33447	SECO57-15	64162	DY24-15
/3-16	33447	SECO57-16	64162	DY24-16
/3-17	33447	SECO57-17	64162	DY24-17
/3-18	33447	SECO57-18	64162	DY24-18
/3-19	33447	SECO57-19	64162	DY24-19
/3-20	33447	SECO57-20	64162	DY24-20
/3-21	33447	SECO57-21	64162	DY24-21
/3-22	33447	SECO57-22	64162	DY24-22
/3-23	33447	SECO57-23	64162	DY24-23
/3-24	33447	SECO57-24	64162	DY24-24
/3-25	33447	SECO57-25	64162	DY24-25
/3-26	33447	SECO57-26	64162	DY24-26
/3-27	33447	SECO57-27	64162	DY24-27
/3-28	33447	SECO57-28	64162	DY24-28
/3-29	33447	SECO57-29	64162	DY24-29
/3-30	33447	SECO57-30	64162	DY24-30

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TABLE IV. P/N supersession data - Continued.

Dash number (see table I) AA59997/3	MFR's CAGE	MFR's P/N <u>1/</u>	MFR's CAGE	MFR's P/N <u>1/</u>
/3-A-2	33447	SECO57-A2	64162	DY24-A-2K
/3-A-3	33447	SECO57-A3	64162	DY24-A-3K
/3-A-4	33447	SECO57-A4	64162	DY24-A-4K
/3-A-5	33447	SECO57-A5	64162	DY24-A-5K
/3-A-6	33447	SECO57-A6	64162	DY24-A-6K
/3-A-8	33447	SECO57-A8	64162	DY24-A-8K
/3-A-10	33447	SECO57-A10	64162	DY24-A-10K
/3-A-12	33447	SECO57-A12	64162	DY24-A-12K
/3-A-16	33447	SECO57-A16	64162	DY24-A-16K
/3-A-20	33447	SECO57-A20	64162	DY24-A-20K
/3-A-24	33447	SECO57-A24	64162	DY24-A-24K
/3-A-32	33447	SECO57-A32	64162	DY24-A-32K
/3-AT-2	33447	SECO57-AT2	64162	DY24-AT-2K
/3-AT-3	33447	SECO57-AT3	64162	DY24-AT-3K
/3-AT-4	33447	SECO57-AT4	64162	DY24-AT-4K
/3-AT-5	33447	SECO57-AT5	64162	DY24-AT-5K
/3-AT-6	33447	SECO57-AT6	64162	DY24-AT-6K
/3-AT-8	33447	SECO57-AT8	64162	DY24-AT-8K
/3-AT-10	33447	SECO57-AT10	64162	DY24-AT-10K
/3-AT-12	33447	SECO57-AT12	64162	DY24-AT-12K
/3-AT-16	33447	SECO57-AT16	64162	DY24-AT-16K
/3-AT-20	33447	SECO57-AT20	64162	DY24-AT-20K
/3-AT-24	33447	SECO57-AT24	64162	DY24-AT-24K
/3-AT-32	33447	SECO57-AT32	64162	DY24-AT-32K
/3-N-2	33447	SECO57-N2	64162	DY24-N-2K
/3-N-3	33447	SECO57-N3	64162	DY24-N-3K
/3-N-4	33447	SECO57-N4	64162	DY24-N-4K
/3-N-5	33447	SECO57-N5	64162	DY24-N-5K
/3-N-6	33447	SECO57-N6	64162	DY24-N-6K
/3-N-8	33447	SECO57-N8	64162	DY24-N-8K
/3-N-10	33447	SECO57-N10	64162	DY24-N-10K
/3-N-12	33447	SECO57-N12	64162	DY24-N-12K
/3-N-16	33447	SECO57-N16	64162	DY24-N-16K
/3-N-20	33447	SECO57-N20	64162	DY24-N-20K
/3-N-24	33447	SECO57-N24	64162	DY24-N-24K
/3-N-32	33447	SECO57-N32	64162	DY24-N-32K

(See notes at end of table)

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TABLE IV. P/N supersession data - Continued.

Dash number (see table I) AA59997/3	MFR's CAGE	MFR's P/N <u>1/</u>	MFR's CAGE	MFR's P/N <u>1/</u>
/3-NT-2	33447	SECO57-NT2	64162	DY24-NT-2K
/3-NT-3	33447	SECO57-NT3	64162	DY24-NT-3K
/3-NT-4	33447	SECO57-NT4	64162	DY24-NT-4K
/3-NT-5	33447	SECO57-NT5	64162	DY24-NT-5K
/3-NT-6	33447	SECO57-NT6	64162	DY24-NT-6K
/3-NT-8	33447	SECO57-NT8	64162	DY24-NT-8K
/3-NT-10	33447	SECO57-NT10	64162	DY24-NT-10K
/3-NT-12	33447	SECO57-NT12	64162	DY24-NT-12K
/3-NT-16	33447	SECO57-NT16	64162	DY24-NT-16K
/3-NT-20	33447	SECO57-NT20	64162	DY24-NT-20K
/3-NT-24	33447	SECO57-NT24	64162	DY24-NT-24K
/3-NT-32	33447	SECO57-NT32	64162	DY24-NT-32K
/3-NS-2	33447	SECO57-NS2	64162	DY24-NS-2K
/3-NS-3	33447	SECO57-NS3	64162	DY24-NS-3K
/3-NS-4	33447	SECO57-NS4	64162	DY24-NS-4K
/3-NS-5	33447	SECO57-NS5	64162	DY24-NS-5K
/3-NS-6	33447	SECO57-NS6	64162	DY24-NS-6K
/3-NS-8	33447	SECO57-NS8	64162	DY24-NS-8K
/3-NS-10	33447	SECO57-NS10	64162	DY24-NS-10K
/3-NS-12	33447	SECO57-NS12	64162	DY24-NS-12K
/3-NS-16	33447	SECO57-NS16	64162	DY24-NS-16K
/3-NS-20	33447	SECO57-NS20	64162	DY24-NS-20K
/3-NS-24	33447	SECO57-NS24	64162	DY24-NS-24K
/3-NS-32	33447	SECO57-NS32	64162	DY24-NS-32K

1/ The manufacturer's P/N shall not be used for acquisition to the requirements of this CID. At the time of preparation of this CID, the aforementioned commercial products were reviewed and could be replaced by the CID PIN shown.



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MILITARY INTERESTS:

Custodians:

Army - AV  
Navy - AS  
Air Force - 11  
DLA - CC

Review activities:

Army - AT, MI  
Navy - MC, SH  
Air Force - 71

CIVIL AGENCY COORDINATING ACTIVITY:

GSA - FAS

Preparing Activity:

DLA - CC

Project 4730-2019-013

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <https://assist.dla.mil/>.