

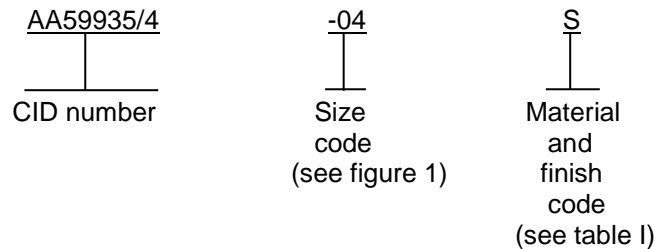
COMMERCIAL ITEM DESCRIPTION
SPECIFICATION SHEET

CONICAL SEALS, CRUSH, 37 DEGREE FLARED
TUBE FITTING, CORROSION RESISTANT STEEL

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

The complete requirements for procuring conical seal, crush, 37 degree flared tube fitting, corrosion resistant steel described herein shall consist of this document and the issue in effect of A-A-59935.

CLASSIFICATION/PART OR IDENTIFICATION NUMBER (PIN). This commercial item description (CID) uses a classification system which is included in the PIN as shown in the following example (see NOTES).

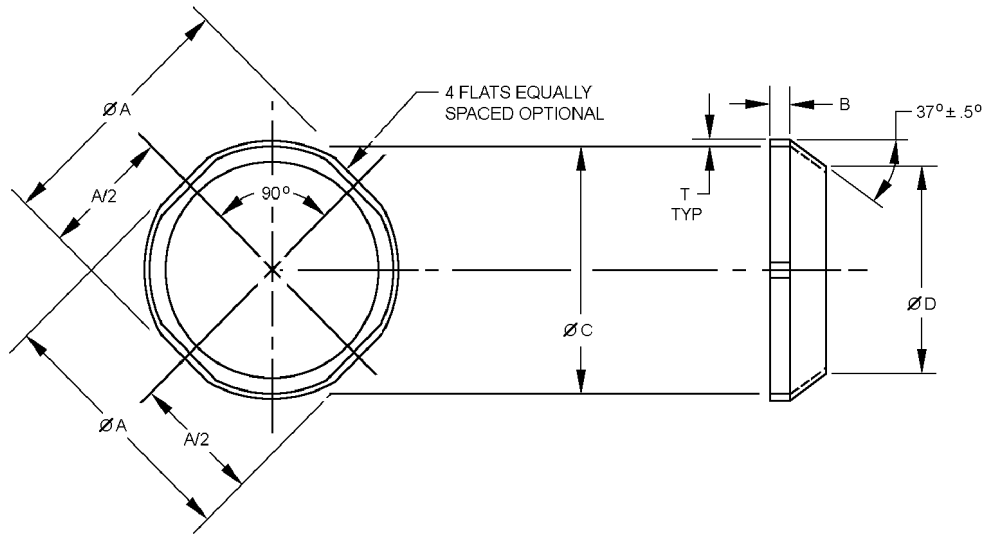


SALIENT CHARACTERISTICS.

Interface and physical dimensions. Conical seals, crush, 37 degree flared tube fitting, corrosion resistant steel supplied to this CID specification sheet shall be as specified herein (see figure 1 and table I).

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@dlam.mil. 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/>.

A-A-59935/4



Dash size code	Tubing OD Ref.	A +.005 -.000	B +.000 -.015	C +.005 -.000	D +.015 -.000	T inch
-02	1/8	.240	.060	.245	.103	.005
-03	3/16	.302		.307	.166	
-04	1/4	.354		.359	.213	
-05	5/16	.416	.075	.421	.275	
-06	3/8	.471		.476	.338	
-08	1/2	.649	.095	.654	.446	
-10	5/8	.762	.105	.767	.562	
-12	3/4	.933		.938	.687	
-16	1	1.183	.125	1.188	.936	
-20	1-1/4	1.496		1.501	1.375	
-24	1-1/2	1.745		1.750	1.410	
-28	1-3/4	2.120		2.125	1.680	
-32	2	2.370	.055	2.375	1.913	
-40	2 1/2	2.877		2.882	2.500	
-44	2 3/4	3.127		3.125	2.742	
-48	3	3.377		3.382	2.990	.015

NOTES:

1. Dimensions are in inches.
2. Dimensioning and tolerancing in accordance with ASME Y14.5. Unless otherwise specified, tolerances for decimals $\pm .005$ inch (0.13 mm), angles $\pm .5^\circ$.
3. Break sharp edges and remove burrs and slivers.
4. Surface texture shall be .005 inches in accordance with ASME B46.1.
5. These parts are soft and easily deformed dimensions B, C, and D shall be verified by installing the seal on a standard fitting of the appropriate size.
6. An out-of-round-seal that does not interfere with installation shall not be cause for rejection.

FIGURE 1. 37° flared crush seal.

TABLE I. Material and finish code.

Material and finish code	Material and finish
S	Corrosion resistant steel strip type 304 or 305, annealed, in accordance with ASTM A240/A240M
ST	Corrosion resistant steel strip type 304 or 305, annealed, In accordance with ASTM A240/A240M Tin plated in accordance with ASTM B545 or SAE AMS2408
SS	Corrosion resistant steel strip type 304 or 305, annealed, in accordance with ASTM A240/A240M Silver plated in accordance with SAE-AMS2410

Tubing material and fluids or gases to be sealed, see table II.

TABLE II. Tubing material and fluids or gases.

Tubing and fitting material	Assembly temperature range	Fluid or gases
Steel	-420°F to +1500°F (-251°C to 816°C)	Anhydrous hydrazine Undimethylhydrazine (UDMH) 40% UDMH + 60% JP-4 (JP-X) 50% Hydrazine + 50% UDMH (Aerozine 50) UDMH + Diethylenethriamine (UDETA) Nitric acid

Torque technique. These seals require a second torque technique; see A-A-59935 for torquing procedure.

NOTES.

PIN. The PIN should be used for Government purposes to buy commercial products to this CID specification sheet. See the classification section for PIN format example.

Source of documents.

COMMERCIAL ITEM DESCRIPTIONS

A-A-59935 - Conical Seal, Crush, 37 Degree Flared Tube Fitting, General Requirements For

(Copies of these documents are available online at <http://quicksearch.dla.mil/> or from the DLA Document Services Order Desk, 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111-5094).

Other Publications

ASME

- ASME Y14.5 - Dimensioning and Tolerancing
- ASME B46.1 - Surface Texture (Surface Roughness, Waviness, and Lay)

(Copies of these documents are available online at <http://www.asme.org> or from the ASME International, Three Park Avenue, New York, NY 10016-5990.)

ASTM INTERNATIONAL

- ASTM A240/A240M - Standard Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications
- ASTM B545 - Standard Specification for Electrodeposited Coatings of Tin

(Copies of these documents are available online at <http://www.astm.org> or from the ASTM International, P.O. Box C700, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959.)

SAE INTERNATIONAL

- SAE-AMS2408 - Plating, Tin
- SAE-AMS2410 - Plating, Silver Nickel Strike, High Bake

(Copies of these documents are available on line at www.sae.org from SAE International, 400 Commonwealth Drive, Warrendale, PA 15096-0001, and Tel: 877-606-7323 [inside USA and Canada] or 724-776-4970 [outside USA], email at CustomerService@sae.org.)

Commercial products. As part of the market analysis and research effort, this CID specification sheet was coordinated with the following manufacturers of commercial products. At the time of CID specification sheet preparation and coordination, these manufacturers were known to have commercial products that would meet the requirements of this CID specification sheet. (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>MFR's CAGE number</u>	<u>MFR's name and address</u>
33447	SECO Seals Inc. 1370 Logan Ave. Unit K Costa Mesa, CA 92626 714-546-3778 E-mail: secoseals@aol.com
64162.	Del Aerospace, Inc. 921 Mountain View Ave A Oxnard, CA 93030-7227 E-mail: delaero@earthlink.net
66776	Alcoa Global Fasteners Inc. Div Rosan / Eagle Products DBA Alcoa Fastening Systems 800 S State College Blvd Fullerton, CA 92831-5334
01673	SPS Technologies LLC DBA Airdrome Precision Components Div SPS Technologies LLC 3251 E Airport WY Long Beach, CA 90806-2407

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

TABLE III. P/N supersession data.

Dash number (see table I) AA59935	MFR's CAGE	MFR's P/N 1/	MFR's CAGE	MFR's P/N 1/
-02S	33447	SECO7S-02	64162	DY90-S-2
-03S	33447	SECO7S-03	64162	DY90-S-3
-04S	33447	SECO7S-04	64162	DY90-S-4
-05S	33447	SECO7S-05	64162	DY90-S-5
-06S	33447	SECO7S-06	64162	DY90-S-6
-08S	33447	SECO7S-08	64162	DY90-S-8
-10S	33447	SECO7S-10	64162	DY90-S-10
-12S	33447	SECO7S-12	64162	DY90-S-12
-16S	33447	SECO7S-16	64162	DY90-S-16
-20S	33447	SECO7S-20	64162	DY90-S-20
-24S	33447	SECO7S-24	64162	DY90-S-24
-28S	33447	SECO7S-28	64162	DY90-S-28
-32S	33447	SECO7S-32	64162	DY90-S-32
-40S	33447	SECO7S-40	64162	DY90-S-40
-44S	33447	SECO7S-44	64162	DY90-S-44
-48S	33447	SECO7S-48	64162	DY90-S-48

Dash number (see table I) AA59935	MFR's CAGE	MFR's P/N 1/	MFR's CAGE	MFR's P/N 1/
-02S	66776	VSF1015S2	01673	AP50A2
-03S	66776	VSF1015S3	01673	AP50*3
-04S	66776	VSF1015S4	01673	AP50*4
-05S	66776	VSF1015S5	01673	AP50*5
-06S	66776	VSF1015S6	01673	AP50*6
-08S	66776	VSF1015S8	01673	AP50*8
-10S	66776	VSF1015S10	01673	AP50*10
-12S	66776	VSF1015S12	01673	AP50*12
-16S	66776	VSF1015S16	01673	AP50*16
-20S	66776	VSF1015S20	01673	AP50*20
-24S	66776	VSF1015S24	01673	AP50*24
-28S	66776	VSF1015S28	01673	AP50*28
-32S	66776	VSF1015S32	01673	AP50*32
-40S	66776	VSF1015S40	01673	AP50*40
-44S	66776	VSF1015S44	01673	AP50*44
-48S	66776	VSF1015S48	01673	AP50*48

See note at end of table.

TABLE III. P/N supersession data - Continued.

Dash number (see table I) AA59935	MFR's CAGE	MFR's P/N <u>1/</u>	MFR's CAGE	MFR's P/N <u>1/</u>
-02ST	33447	SECO7ST-02	64162	DY90-ST-2
-03ST	33447	SECO7ST-03	64162	DY90-ST-3
-04ST	33447	SECO7ST-04	64162	DY90-ST-4
-05ST	33447	SECO7ST-05	64162	DY90-ST-5
-06ST	33447	SECO7ST-06	64162	DY90-ST-6
-08ST	33447	SECO7ST-08	64162	DY90-ST-8
-10ST	33447	SECO7ST-10	64162	DY90-ST-10
-12ST	33447	SECO7ST-12	64162	DY90-ST-12
-16ST	33447	SECO7ST-16	64162	DY90-ST-16
-20ST	33447	SECO7ST-20	64162	DY90-ST-20
-24ST	33447	SECO7ST-24	64162	DY90-ST-24
-28ST	33447	SECO7ST-28	64162	DY90-ST-28
-32ST	33447	SECO7ST-32	64162	DY90-ST-32
-40ST	33447	SECO7ST-40	64162	DY90-ST-40
-44ST	33447	SECO7ST-44	64162	DY90-ST-44
-48ST	33447	SECO7ST-48	64162	DY90-ST-48

Dash number (see table I) AA59935	MFR's CAGE	MFR's P/N <u>1/</u>	MFR's CAGE	MFR's P/N <u>1/</u>
-02SS	33447	SECO7SS-02	64162	DY90-SS-2
-03SS	33447	SECO7SS-03	64162	DY90-SS-3
-04SS	33447	SECO7SS-04	64162	DY90-SS-4
-05SS	33447	SECO7SS-05	64162	DY90-SS-5
-06SS	33447	SECO7SS-06	64162	DY90-SS-6
-08SS	33447	SECO7SS-08	64162	DY90-SS-8
-10SS	33447	SECO7SS-10	64162	DY90-SS-10
-12SS	33447	SECO7SS-12	64162	DY90-SS-12
-16SS	33447	SECO7SS-16	64162	DY90-SS-16
-20SS	33447	SECO7SS-20	64162	DY90-SS-20
-24SS	33447	SECO7SS-24	64162	DY90-SS-24
-28SS	33447	SECO7SS-28	64162	DY90-SS-28
-32SS	33447	SECO7SS-32	64162	DY90-SS-32
-40SS	33447	SECO7SS-40	64162	DY90-SS-40
-44SS	33447	SECO7SS-44	64162	DY90-SS-44
-48SS	33447	SECO7SS-48	64162	DY90-SS-48

1/ The manufacturer's P/N shall not be used for procurement to the requirements of this specification sheet. At the time of preparation of this specification sheet, the aforementioned commercial products were reviewed and could be replaced by the CID PIN shown. For actual part marking requirements, see the marking paragraph of A-A-59935.

MILITARY INTERESTS:

Custodians:

Army - AV
Navy - AS
Air Force - 99
DLA - CC

Review activities:

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

CIVIL AGENCY COORDINATING ACTIVITY:

GSA - FAS

Preparing activity:

DLA - CC

Project 4730-2013-079

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/>.