

INCH-POUND

AN6027 Rev 5  
 4 November 2013  
 SUPERSEDING  
 AN6027 Rev 4  
 26 March 2003

## DETAIL SPECIFICATION SHEET

## COUPLING HALF, QUICK DISCONNECT

Inactive for new design after 5 March 1999. For new design, use MIL-PRF-7891.

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification sheet.

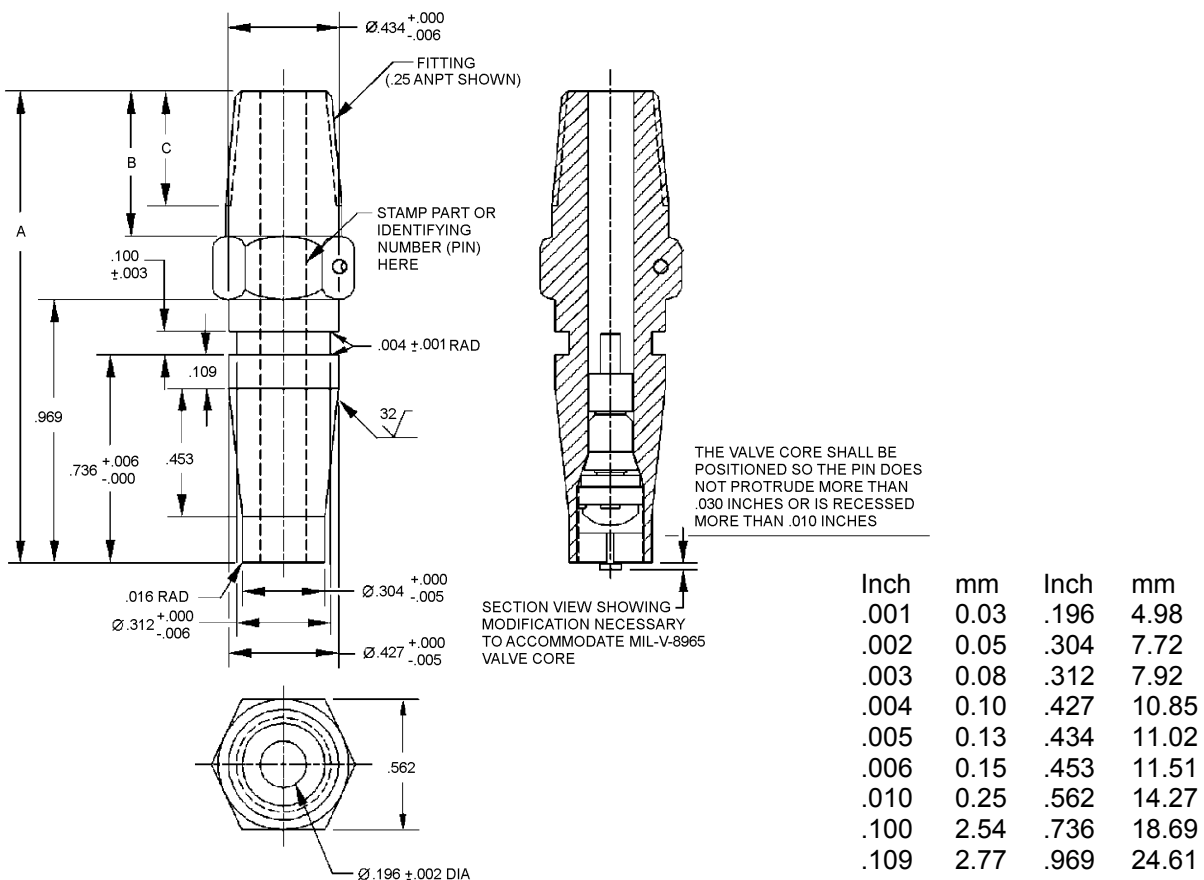


FIGURE 1. Coupling half, quick disconnect.

## AN6027 Rev 5

| Size code | Fitting    | Size<br>inch (mm) | A<br>$\pm .005$ (0.13)<br>inch (mm) | B<br>inch (mm) | C<br>inch (mm) |
|-----------|------------|-------------------|-------------------------------------|----------------|----------------|
| -1        | SAE-AS5201 | .25 (6.35)        | 1.743 (44.27)                       | .562 (14.27)   | .438 (11.13)   |
| -2        | SAE-AS4395 | 4 (101.60)        | 1.731 (43.97)                       | .550 (13.97)   | ---            |

## NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless other specified tolerances are  $\pm .010$  inch.
4. Break all sharp edges to provide minimum radius of .010 inches.
5. Surface roughness shall be in accordance with ASME B46.1. Unless otherwise specified maximum roughness shall be 63.

FIGURE 1. Coupling half, quick disconnect - Continued.

## REQUIREMENTS

Dimensions and configuration shall be in accordance with figure 1.

This coupling half is designed for use with MIL-PRF-7891 filler valve.

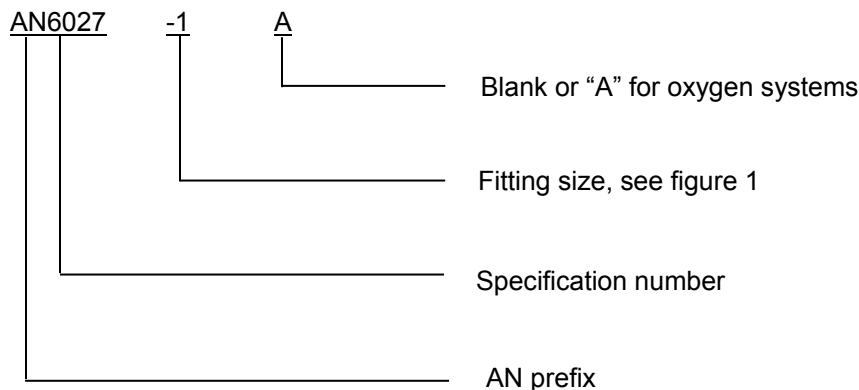
Material low carbon steel SAE No. 1213 (UNS G12130) in accordance with SAE-J403 or 12L14 in accordance with ASTM A29/A29M.

Heat treat: Heat treat .003 - .008 inch (0.08 - 0.20 mm) effective case depth temper to surface hardness " file hard" 60+ HRC equivalent in accordance with SAE-J864.

Finish: Zinc coating in accordance with ASTM B633, type IV, SC 4.

Oxygen systems for aerospace, shipboard, and ground support equipment. Parts for use on oxygen systems shall be identified in the PIN as code "A" and shall be furnished cleaned, packaged, and labeled in accordance with SAE-AS611 to a process approved by the user.

Part or Identifying Number (PIN): The PIN consists of the letters "AN", the specification sheet number, dash number for ID hose sizes, and a code letter for material type and finish, and blank or "A" for oxygen cleaning requirements. Unassigned PIN's shall not be used.



## AN6027 Rev 5

Marking: Part shall be permanently marked with the AN PIN.

Table I provides a detailed cross-reference of cancelled AN6027 PINs and replacement MIL-PRF-7891 PINs. Users are cautioned to evaluate replacements for their particular application.

CAUTION: The superseding information is valid as of the date of this specification and may be superseded by subsequent revisions of the superseding document.

TABLE I. Cross-reference data.

| AN PIN<br>cancelled part | MIL-PRF-7891 PIN<br>active part |
|--------------------------|---------------------------------|
| AN6027-3                 | M7891LM-1                       |
| AN6027-4                 | M7891LM-2                       |

Order of precedence. Unless otherwise noted herein or in the contract, in the event of a conflict between the text of this document and the references cited herein, the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

Referenced documents shall be of the issue in effect on date of invitations for bid.

NOTE: The taper end of this coupling half is subject to international standardization agreement specified in AIR-STD-25/34.

When revision or cancellation of this standard is proposed the departmental custodians will inform their respective departmental standardization office so that appropriate action may be taken respecting the international agreement concerned.

Changes from previous issue. Marginal notations are not used in this revision to identify changes with respect to the previous issue, due to the extent of the changes.

Referenced documents. This document references the following:

|               |            |
|---------------|------------|
| MIL-PRF-7891  | SAE-AS611  |
| MIL-V-8965    | SAE-AS4395 |
| AIR-STD-25/34 | SAE-AS5201 |
| ASME B46.1    | SAE-J403   |
| ASTM B633     | SAE-J864   |
| ASTM A29/A29M |            |

AN6027 Rev 5

## CONCLUDING MATERIAL

Custodians:

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

Preparing activity:

DLA - CC

(Project 4730-2013-118)

Review activities:

Navy - MC, SA  
Air Force - 71

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>.