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MA4569

#### RATIONALE

MA4569 HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

FEDERAL SUPPLY CLASS  
4720

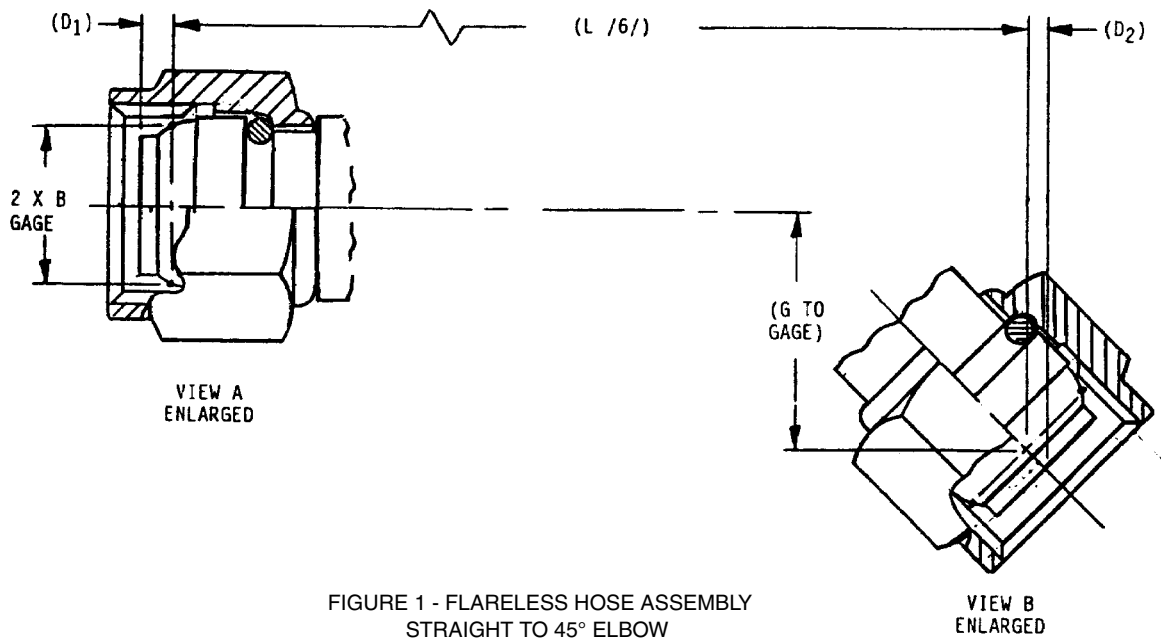
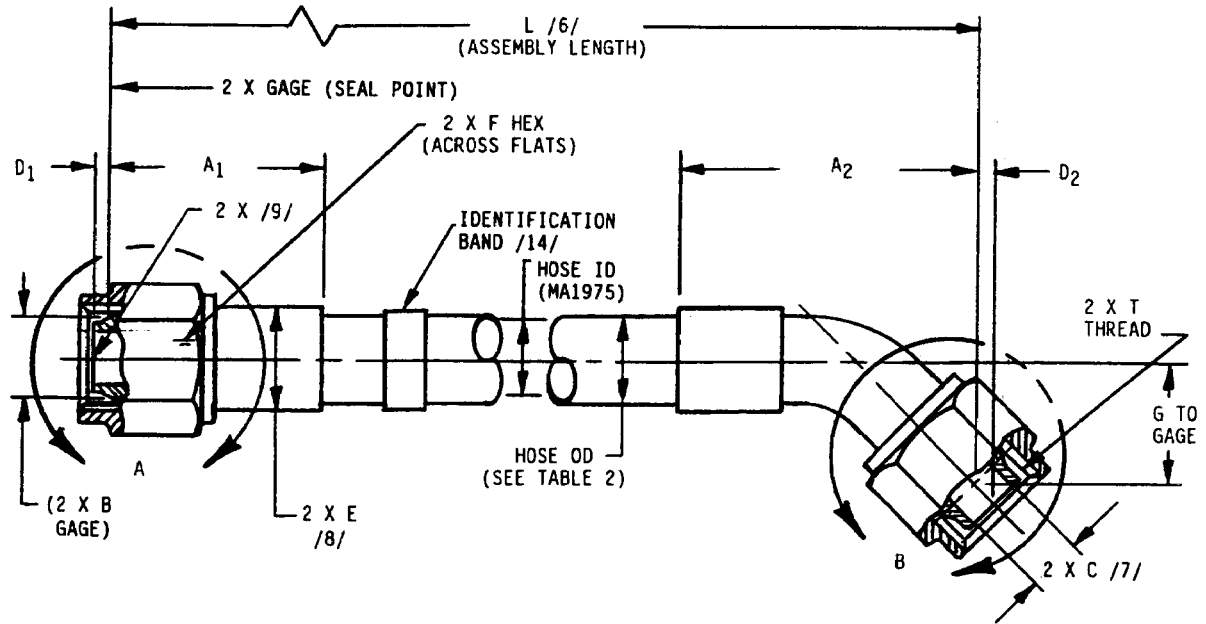
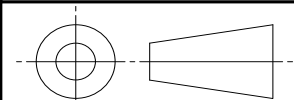


FIGURE 1 - FLARELESS HOSE ASSEMBLY  
STRAIGHT TO 45° ELBOW

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THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3D

PROCUREMENT SPECIFICATION: /2/ MA1975



#### AEROSPACE STANDARD

HOSE ASSEMBLY, PTFE, ARAMID REINFORCED, STANDARD DUTY,  
21 000/28 000 KPA, 135 °C, TITANIUM FITTINGS, FLARELESS,  
INCLUDING JUMP SIZES, STRAIGHT TO 45°, METRIC

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TABLE 1 - ASSEMBLY DIMENSIONS IN MM

| BASIC<br>HOSE<br>ASSEMBLY<br>NUMBER<br>MA4569<br>SIZE<br>CODE | (HOSE<br>SIZE<br>DN) | /15/<br>(FITTING<br>TYPE) | THREAD T<br>EXT INT<br>4H5H | ID<br>MIN | A1<br>MAX | A2<br>MAX | B<br>GAGE<br>BASIC | /7/ C<br>MIN<br>STRAIGHT<br>FTG ROPE<br>AFTER<br>ASSEMBLY | D1   | D2  | /B/ E<br>WITHOUT<br>SLEEVING |     | G<br>MIN | G<br>MAX | BALL<br>SIZE<br>THRU<br>MS19059<br>DASH NO<br>MIN /7/ | /7/<br>BALL<br>SIZE<br>THRU<br>MIN |
|---------------------------------------------------------------|----------------------|---------------------------|-----------------------------|-----------|-----------|-----------|--------------------|-----------------------------------------------------------|------|-----|------------------------------|-----|----------|----------|-------------------------------------------------------|------------------------------------|
|                                                               |                      |                           |                             |           |           |           |                    |                                                           |      |     |                              |     |          |          |                                                       |                                    |
| E                                                             | 6                    | -                         | -                           | -         | -         | -         | -                  | -                                                         | -    | -   | -                            | -   | -        | -        | -                                                     | -                                  |
| E                                                             | 6                    | S                         | MJ12x1.25                   | 5.4       | 41.4      | 54.9      | 7.5                | 3.4                                                       | 4.1  | 2.8 | 18                           | 18  | 8.9      | 12.1     | 4807                                                  | 2.77                               |
| E                                                             | 6                    | E                         | MJ16x1.5                    | 5.4       | 43.1      | 55.9      | 11.5               | 3.4                                                       | 4.1  | 3.0 | 18                           | 18  | 9.5      | 12.7     | 4807                                                  | 2.77                               |
| G                                                             | 10                   | R                         | MJ12x1.25                   | 7.6       | 43.8      | 66.6      | 7.5                | 3.4                                                       | 4.1  | 2.8 | 21                           | 21  | 8.9      | 12.1     | 4807                                                  | 2.77                               |
| G                                                             | 10                   | S                         | MJ16x1.5                    | 7.6       | 46.6      | 62.5      | 11.5               | 6.1                                                       | 4.1  | 3.0 | 21                           | 21  | 9.5      | 12.7     | 4812                                                  | 4.78                               |
| G                                                             | 10                   | E                         | MJ18x1.5                    | 7.6       | 48.6      | 70.4      | 13.5               | 6.1                                                       | 4.8  | 3.3 | 21                           | 21  | 11.1     | 14.2     | 4812                                                  | 4.78                               |
| H                                                             | 12                   | R                         | MJ16x1.5                    | 9.9       | 54.5      | 68.5      | 11.5               | 6.1                                                       | 4.1  | 3.0 | 25                           | 25  | 9.5      | 12.7     | 4812                                                  | 4.78                               |
| H                                                             | 12                   | S                         | MJ18x1.5                    | 9.9       | 55.0      | 69.6      | 13.5               | 8.6                                                       | 4.8  | 3.3 | 25                           | 25  | 11.1     | 14.2     | 4816                                                  | 7.95                               |
| H                                                             | 12                   | E                         | MJ22x1.5                    | 9.9       | 67.9      | 77.5      | 17.5               | 8.6                                                       | 5.1  | 3.6 | 25                           | 25  | 13.8     | 17.1     | 4816                                                  | 7.95                               |
| J                                                             | 16                   | R                         | MJ18x1.5                    | 12.3      | 72.6      | 93.1      | 13.5               | 8.6                                                       | 4.8  | 3.3 | 30                           | 30  | 11.1     | 14.2     | 4816                                                  | 7.95                               |
| J                                                             | 16                   | S                         | MJ22x1.5                    | 12.3      | 73.8      | 96.2      | 17.5               | 10.4                                                      | 5.1  | 3.6 | 30                           | 30  | 13.8     | 17.1     | 4818                                                  | 9.53                               |
| J                                                             | 16                   | E                         | MJ27x1.5                    | 12.3      | 74.2      | 96.4      | 21.5               | 10.4                                                      | 5.8  | 4.1 | 30                           | 30  | 14.7     | 17.9     | 4818                                                  | 9.53                               |
| K                                                             | 20                   | R                         | MJ22x1.5                    | 15.3      | 82.3      | 103.3     | 17.5               | 10.4                                                      | 5.1  | 3.6 | 35                           | 35  | 13.8     | 17.1     | 4818                                                  | 9.53                               |
| K                                                             | 20                   | S                         | MJ27x1.5                    | 15.3      | 81.4      | 103.3     | 21.5               | 13.0                                                      | 5.8  | 4.1 | 35                           | 35  | 14.7     | 17.9     | 4821                                                  | 11.91                              |
| K                                                             | 20                   | E                         | MJ33x1.5                    | 15.3      | 84.3      | 109.0     | 26.6               | 13.0                                                      | 7.6  | 5.3 | 35                           | 35  | 18.2     | 21.3     | 4821                                                  | 11.91                              |
| M                                                             | 25                   | R                         | MJ27x1.5                    | 21.6      | 93.7      | 118.0     | 21.5               | 13.0                                                      | 5.8  | 4.1 | 43                           | 43  | 14.7     | 17.9     | 4821                                                  | 11.91                              |
| M                                                             | 25                   | S                         | MJ33x1.5                    | 21.6      | 95.0      | 118.0     | 26.6               | 19.3                                                      | 7.6  | 5.3 | 43                           | 43  | 16.2     | 21.3     | 4829                                                  | 18.26                              |
| M                                                             | 25                   | E                         | MJ42x2                      | 21.6      | 90.7      | 127.3     | 31.7               | 19.3                                                      | 10.2 | 7.6 | 43                           | 43  | 19.1     | 22.2     | 4829                                                  | 18.26                              |
| N                                                             | 32                   | R                         | MJ33x1.5                    | 27.9      | 116.8     | 143.5     | 26.6               | 19.3                                                      | 7.6  | 5.3 | 60                           | 60  | 18.2     | 21.3     | 4829                                                  | 18.26                              |
| N                                                             | 32                   | S                         | MJ42x2                      | 27.9      | 110.0     | 141.9     | 33.7               | 24.3                                                      | 10.2 | 7.6 | 60                           | 60  | 19.1     | 22.2     | 4835                                                  | 22.23                              |
| N                                                             | 32                   | -                         | TBD                         | TBD       | TBD       | TBD       | TBD                | TBD                                                       | TBD  | TBD | TBD                          | TBD | TBD      | TBD      | TBD                                                   | TBD                                |
| P                                                             | 40                   | -                         | TBD                         | TBD       | TBD       | TBD       | TBD                | TBD                                                       | TBD  | TBD | TBD                          | TBD | TBD      | TBD      | TBD                                                   | TBD                                |
| P                                                             | 40                   | S                         | TBD                         | TBD       | TBD       | TBD       | TBD                | TBD                                                       | TBD  | TBD | TBD                          | TBD | TBD      | TBD      | TBD                                                   | TBD                                |
| P                                                             | 40                   | -                         | TBD                         | TBD       | TBD       | TBD       | TBD                | TBD                                                       | TBD  | TBD | TBD                          | TBD | TBD      | TBD      | TBD                                                   | TBD                                |



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