



# Hewitt®

AVIATION FUELING PRODUCTS

## How to Identify the Inside Diameter (ID) of Aviation Fueling and/or Defueling Hose Assemblies



Nothing is more aggravating when ordering a new aviation fueling hose than to receive the wrong size hose assembly.

It means additional downtime of the fueling vehicle, possible conflicts with FAA inspections, and the possibility that the hose cannot be returned to the manufacturer due to special length, configuration, or low usage. At a minimum, you will have a restocking charge and more paperwork.

The key to avoiding this problem is to determine the Inside Diameter (ID) of the existing aviation fueling and/or defueling hose. Start by looking for a serial number on the fittings at each end of the hose assembly. Hewitt® aviation hoses are marked with either "HH XXXXX" or "HS XXXXX". If the number is identifiable, you can call Hewitt and we can check our records for a copy of the hose certificate. Serial numbers for hoses more than 10 years old are usually not available. The photos below show typical serial number markings.



If a serial number cannot be located, use at least two of the following recommended methods to confirm the hose ID so you can order the correct size hose assembly.

- On the hose, check the embedded lay line. Hewitt aviation hoses show the size in the embedded lay line.

**Example:** HEWITT AIRCRAFT FUELING HOSE  
2 INCH / 50 MM NFPA-407...

- Check the fittings for identifying marks on the ferrules. Ferrules should have the size markings visible. The list below shows typical markings.

|        |                           |
|--------|---------------------------|
| 3/4"   | R75BS or 075-xxx          |
| 1"     | R1BS or 100-xxx           |
| 1-1/4" | R125BS or 125-xxx         |
| 1-1/2" | R15BS or 150-xxx          |
| 2"     | R2CSS or 200-xxx          |
| 2-1/2" | R25CSS or 250-xxx         |
| 3"     | R3BSS or 300-xxx or F48-x |
| 4"     | R4HSS or 400-xxx or F64-x |



- Measure the Outside Diameter (OD) of the hose at an area that has not seen significant wear. Compare your findings to the chart below.

| Size   | Hewitt 4113 | Goodyear Wingcraft | Parker 7776 |
|--------|-------------|--------------------|-------------|
| ID     | OD          | OD                 | OD          |
| 3/4"   | 1.25"       | xx                 | xx          |
| 1"     | 1.50"       | 1.58"              | 1.63"       |
| 1-1/4" | 1.78"       | 1.89"              | 1.91"       |
| 1-1/2" | 2.06"       | 2.13"              | 2.19"       |
| 2"     | 2.57"       | 2.72"              | 2.74"       |
| 2-1/2" | 3.20"       | 3.22"              | 3.26"       |
| 3"     | 3.70"       | 3.70"              | 3.76"       |
| 4"     | 4.94"       | 4.80"              | 4.95"       |

- Measure the OD of the male pipe thread at its widest point. Compare your findings to either Column 1 or Column 2 of the NPT pipe sizing chart below.

| OD Fraction Inch (for quick reference only) | OD Actual | Pipe Thread Size | Normal Engagement for Tight Joint (Dimension C) | Threads per Inch |
|---|-----------|------------------|---|------------------|
| 5/16"                                       | 0.3125"   | 1/16"            | 0.2611"   | 27               |
| 13/32"                                      | 0.405"    | 1/8"             | 0.2639"   | 27               |
| 35/64"                                      | 0.540"    | 1/4"             | 0.4018"   | 18               |
| 43/64"                                      | 0.675"    | 3/8"             | 0.4078"   | 18               |
| 27/32"                                      | 0.840"    | 1/2"             | 0.5337"   | 14               |
| 1-3/64"                                     | 1.050"    | 3/4"             | 0.5457"   | 14               |
| 1-5/16"                                     | 1.315"    | 1"               | 0.6828"   | 11-1/2           |
| 1-21/32"                                    | 1.660"    | 1-1/4"           | 0.7068"   | 11-1/2           |
| 1-29/32"                                    | 1.900"    | 1-1/2"           | 0.7235"   | 11-1/2           |
| 2-3/8"                                      | 2.375"    | 2"               | 0.7565"   | 11-1/2           |
| 2-7/8"                                      | 2.875"    | 2-1/2"           | 1.1375"   | 8                |
| 3-1/2"                                      | 3.5"      | 3"               | 1.2000"   | 8                |
| 4"  | 4.0"      | 3-1/2"           | 1.2500"   | 8                |
| 4-1/2"                                      | 4.5"      | 4"               | 1.3000"   | 8                |

By using the above methods you can eliminate the mistakes of ordering the wrong size hose. You can always contact us to answer your questions about aviation fueling products, hoses, and accessories at 800-325-3558.



For complete details, contact us today at **800-325-3558** or [sales@husky.com](mailto:sales@husky.com)  
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