## Book 2, Article 7.3.1.7.1

*A question was raised by a Council Member regarding the use of a "U" shaped or hole gauge for testing arrow shaft and arrow point diameters.*

The Constitution and Rules Committee finds that the questions presented to be within the terms of reference of the Technical Committee.
The Constitution and Rules Committee has determined that the following interpretations of the Technical Committee are not contrary to the existing rules or Congress decisions.

### Response from the Technical Committee:

The question was raised regarding the manufacture of gauges to check arrow shaft and arrow point diameters. Due to the need for "clearance" tolerances for the dimensions of any "U" shaped or "pass through" gauge, the Technical Committee has determined that the following gauge tolerance should be permitted.

The tolerance for the maximum arrow shaft diameter is 9.3 mm and 9.4 mm for the point tolerance. However, for a measuring gauge it is critical to have some small bit of clearance to allow for the arrow to fit in the gauge. Example, a 9.3 mm shaft will not fit in a 9.3 mm gauge. The Technical Committee has determined that a standard mean tolerance of .05 mm be added to a "U" shaped or ring gauge for the purpose of measuring shaft and arrow point diameters as a "through" clearance. For those who work in inches, that would be .00197". The tolerance should be large enough to compensate for contraction and expansion of the various metals (gauge and or aluminum arrows) in varying temperatures.

Furthermore, a manufacturing tolerance range is necessary for manufacturing requirements as making an exact 9.35 or 9.45 mm gauge is difficult and often expensive for zero tolerance requirements. Therefore, a manufacturing tolerance of
.04 mm is provided for ease of manufacturing. This additional tolerance range shall be
- .01 mm to + .03 mm, providing a range of 9.34 mm to 9.38 mm for the "U" shaped shaft gauge and 9.44 mm to 9.48 mm for the arrow point hole.

Note: If a judge is using a micrometer and not a hole/ring or "U" gauge, the two above tolerances will not apply.

**FITA Technical Committee, 17 January 2009**
**Approved by the FITA C&R Committee, 17 January 2009**

## Book 3, Article 8.3.1.7.1

*A question was raised by a Council Member regarding the use of a "U" shaped or hole gauge for testing arrow shaft and arrow point diameters.*

The Constitution and Rules Committee finds that the questions presented to be within the terms of reference of the Technical Committee.
The Constitution and Rules Committee has determined that the following interpretations of the Technical Committee are not contrary to the existing rules or Congress decisions.

### Response from the Technical Committee:

The question was raised regarding the manufacture of gauges to check arrow shaft and arrow point diameters. Due to the need for "clearance" tolerances for the dimensions of any "U" shaped or "pass through" gauge, the Technical Committee has determined that the following gauge tolerance should be permitted.

The tolerance for the maximum arrow shaft diameter is 9.3 mm and 9.4 millimeter for the point tolerance. However, for a measuring gauge it is critical to have some small bit of clearance to allow for the arrow to fit in the gauge. Example, a 9.3 mm shaft will not fit in a 9.3 mm gauge. The Technical Committee has determined that a standard mean tolerance of .05 mm be added to a "U" shaped or ring gauge for the purpose of measuring shaft and arrow point diameters as a "through" clearance. For those who work in inches, that would be .00197". The tolerance should be large enough to compensate for contraction and expansion of the various metals (gauge and or aluminum arrows) in varying temperatures.

Furthermore, a manufacturing tolerance range is necessary for manufacturing requirements as making an exact 9.35 or 9.45 mm gauge is difficult and often expensive for zero tolerance requirements. Therefore, a manufacturing tolerance of
.04 mm is provided for ease of manufacturing. This additional tolerance range shall be
- .01 mm to + .03 mm, providing a range of 9.34 mm to 9.38 mm for the "U" shaped shaft gauge and 9.44 mm to 9.48 mm for the arrow point hole.

Note: If a judge is using a micrometer and not a hole/ring or "U" gauge, the two above tolerances will not apply.

**FITA Technical Committee, 17 January 2009**
**Approved by the FITA C&R Committee, 17 January 2009**

## Book 4, Article 9.3.7.1.1

*A question was raised by a Council Member regarding the use of a "U" shaped or hole gauge for testing arrow shaft and arrow point diameters.*

The Constitution and Rules Committee finds that the questions presented to be within the terms of reference of the Technical Committee.
The Constitution and Rules Committee has determined that the following interpretations of the Technical Committee are not contrary to the existing rules or Congress decisions.

### Response from the Technical Committee:

The question was raised regarding the manufacture of gauges to check arrow shaft and arrow point diameters. Due to the need for "clearance" tolerances for the dimensions of any "U" shaped or "pass through" gauge, the Technical Committee has determined that the following gauge tolerance should be permitted.

The tolerance for the maximum arrow shaft diameter is 9.3 mm and 9.4 millimeter for the point tolerance. However, for a measuring gauge it is critical to have some small bit of clearance to allow for the arrow to fit in the gauge. Example, a 9.3 mm shaft will not fit in a 9.3 mm gauge. The Technical Committee has determined that a standard mean tolerance of .05 mm be added to a "U" shaped or ring gauge for the purpose of measuring shaft and arrow point diameters as a "through" clearance. For those who work in inches, that would be .00197". The tolerance should be large enough to compensate for contraction and expansion of the various metals (gauge and or aluminum arrows) in varying temperatures.

Furthermore, a manufacturing tolerance range is necessary for manufacturing requirements as making an exact 9.35 or 9.45 mm gauge is difficult and often expensive for zero tolerance requirements. Therefore, a manufacturing tolerance of
.04 mm is provided for ease of manufacturing. This additional tolerance range shall be
- .01 mm to + .03 mm, providing a range of 9.34 mm to 9.38 mm for the "U" shaped shaft gauge and 9.44 mm to 9.48 mm for the arrow point hole.

Note: If a judge is using a micrometer and not a hole/ring or "U" gauge, the two above tolerances will not apply.

**FITA Technical Committee, 17 January 2009**
**Approved by the FITA C&R Committee, 17 January 2009**

## Book 5, Article 11.10.3.1.7.1
## Book 5, Article 11.10.3.2.6.1
## Book 5, Article 11.10.3.3.7.1
## Book 5, Article 11.10.3.4.7.1

*A question was raised by a Council Member regarding the use of a "U" shaped or hole gauge for testing arrow shaft and arrow point diameters.*

The Constitution and Rules Committee finds that the questions presented to be within the terms of reference of the Technical Committee.
The Constitution and Rules Committee has determined that the following interpretations of the Technical Committee are not contrary to the existing rules or Congress decisions.

### Response from the Technical Committee:

The question was raised regarding the manufacture of gauges to check arrow shaft and arrow point diameters. Due to the need for "clearance" tolerances for the dimensions of any "U" shaped or "pass through" gauge, the Technical Committee has determined that the following gauge tolerance should be permitted.

The tolerance for the maximum arrow shaft diameter is 9.3 mm and 9.4 millimeter for the point tolerance. However, for a measuring gauge it is critical to have some small bit of clearance to allow for the arrow to fit in the gauge. Example, a 9.3 mm shaft will not fit in a 9.3 mm gauge. The Technical Committee has determined that a standard mean tolerance of .05 mm be added to a "U" shaped or ring gauge for the purpose of measuring shaft and arrow point diameters as a "through" clearance. For those who work in inches, that would be .00197". The tolerance should be large enough to compensate for contraction and expansion of the various metals (gauge and or aluminum arrows) in varying temperatures.

Furthermore, a manufacturing tolerance range is necessary for manufacturing requirements as making an exact 9.35 or 9.45 mm gauge is difficult and often expensive for zero tolerance requirements. Therefore, a manufacturing tolerance of
.04 mm is provided for ease of manufacturing. This additional tolerance range shall be
- .01 mm to + .03 mm, providing a range of 9.34 mm to 9.38 mm for the "U" shaped shaft gauge and 9.44 mm to 9.48 mm for the arrow point hole.

Note: If a judge is using a micrometer and not a hole/ring or "U" gauge, the two above tolerances will not apply.

**FITA Technical Committee, 17 January 2009**
**Approved by the FITA C&R Committee, 17 January 2009**