# AQ76 Flanged Sample Quill Model Code

| AQ76 | - | T1 | T2 | T3 | - | T4 | - | T5 |
|---|---|---|---|---|---|---|---|---|

| AQ76 | Sample Quill - 0.385” Bore - Flanged to Process |
|---|---|
| Needle Valve /w Threaded Vent Port - 316/316L | |

| T1 | Flange Size NPS | Nominal Pipe OD |
|---|---|---|
| 1” | 1” NPS | 1.315” |
| **1.5”** | **1.5” NPS** | 1.900” |
| **2”** | **2” NPS** | 2.375” |
| Other | Consult factory | |

| T2 | Flange Class per ASME B16.5 |
|---|---|
| 150# | Class 150 |
| 300# | Class 300 |
| 600# | Class 600 |
| 900# | Class 900 |
| 1500# | Class 1500 |
| 2500# | Class 2500 |

| T3 | Flange Face |
|---|---|
| **RF** | **Raised face** |
| RTJ | Ring-type joint |
| FF | Flat face |

| T4 | Specify “U” Length (inches) |
|---|---|
| “inches” | Specify length in inches |

| T5 | Process Flow Orientation |
|---|---|
| G | Into back wall of shank |
| L | Into 45° |

| Needle Valve with vent Specifications | |
|---|---|
| Valve configuration | Needle (isolation) |
| Piping connection | 1/2” NPT(F) |
| Seat diameter | 5mm |
| Vent port | 1/2” NPT(F) port (plugged) |
| Wetted material & body | 316/316L Stainless Steel |
| Packing material | Graphoil (-57°C to 530°C) **Packing Material Only** |
| Pressure / temperature rating | 6,000 psig @ -20°F to +100°F (-29°C to +38°C) / 1015 psi @ 400°F (204°C) |
| Valve design | B16.34 |
| Valve manufacturer | Mac-Weld Machining Ltd. |

NOTES:
1. Part number example: AQ76-2”300#RF-12-G
2. Quill, nipple and valve material is 316/316L stainless steel
3. Reference page 2 for part outline and dimensions
4. Consult factory for Canadian Registration Number (CRN) information


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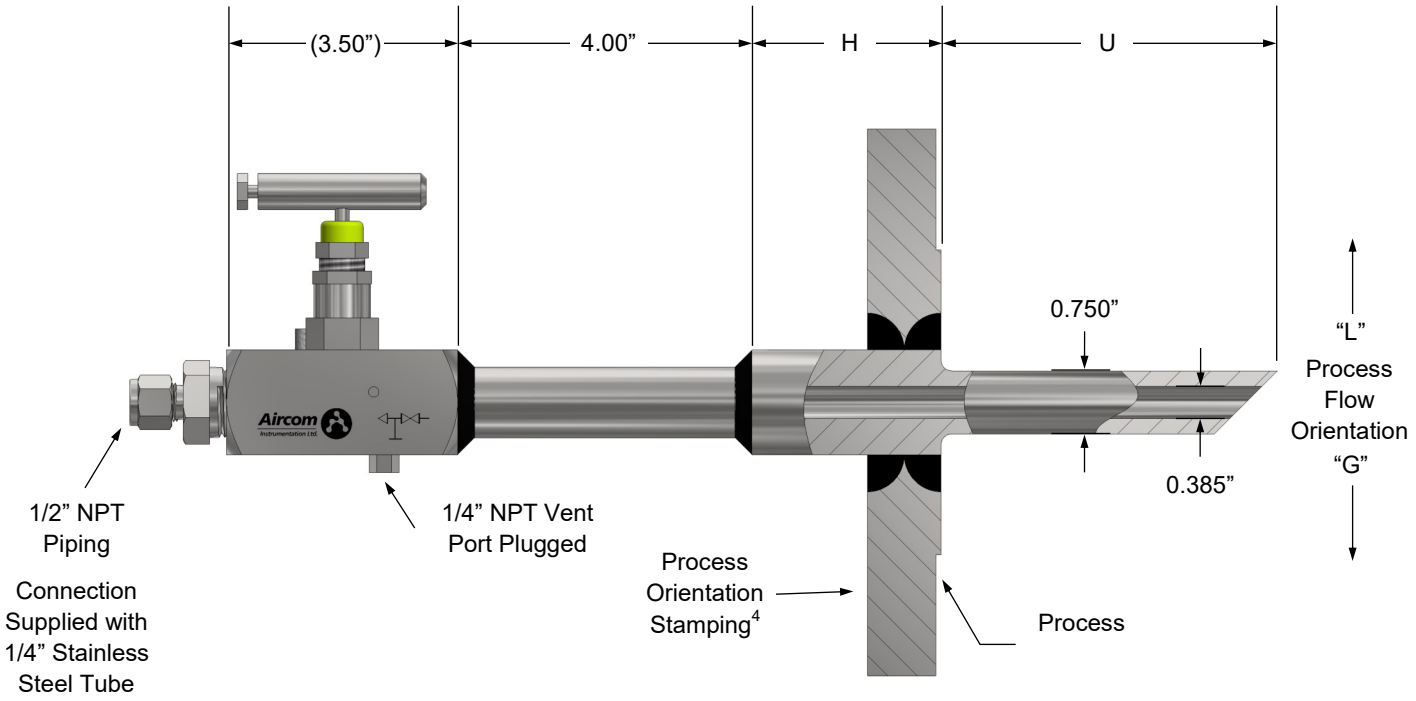
# AQ76 Flanged Quill Outline & Dimensions

## Outline & Dimensions




| Table 1: Aircom Standard Head Lengths (H) in inches | | | | | | |
|---|---|---|---|---|---|---|
| Flange NPS | Flange Class | | | | | |
| | 150# | 300# | 600# | 900# | 1500# | 2500# |
| 1" | 2.25 | 2.25 | 2.25 | 3.25 | 3.25 | 3.25 |
| 1.5" | 2.25 | 2.25 | 2.25 | 3.25 | 3.25 | 3.25 |
| 2" | 2.25 | 2.25 | 2.25 | 3.25 | 3.25 | 3.25 |
| 2.5" | 3.25 | 3.25 | 3.25 | 4.25 | 4.25 | 4.25 |
| 3" | 3.25 | 3.25 | 3.25 | 3.25 | 4.25 | 5.25 |
| 3.5" | 3.25 | 3.25 | 3.25 | Not Available | Not Available | Not Available |
| 4" | 3.25 | 3.25 | 3.25 | 4.25 | 4.25 | 5.25 |
| 5" | 3.25 | 3.25 | 4.25 | 4.25 | 5.25 | 6.25 |
| 6" | 3.25 | 3.25 | 4.25 | 4.25 | 5.25 | 6.25 |
| 8" | 3.25 | 3.25 | 4.25 | 4.25 | 6.25 | 7.25 |
| 10" | 3.25 | 4.25 | 4.25 | 5.25 | 6.25 | 8.25 |

**NOTES:**
1. Bar stock to flange is a full penetration weld
2. Flange dimensions per ASME B16.5
3. Raised face (RF) flange finish 125-250 RMS
4. Quill orientation to process flow will be stamped with an arrow on flange face
5. Quill bolt orientation to be two-hole
6. "RF" raised face flange face (T3) shown above



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