AQ77 Flanged Sample Quill Model Code

AQ77	-	T1	T2	T3	-	T4	-	T5

AQ77	Sample Quill - 0.385” Bore - Flanged to Process
Double Block & Bleed Needle Valve - 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°

Double Block & Bleed Valve Specifications	
Valve configuration	Needle (isolation) - Needle (vent) - 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) / 3030 psi @ 986°F (530°C)
Valve design	B16.34
Valve manufacturer	Mac-Weld Machining Ltd.

NOTES:
1. Part number example: AQ77-2”300RF-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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AQ77 Flanged Quill Outline & Dimensions

Outline & Dimensions

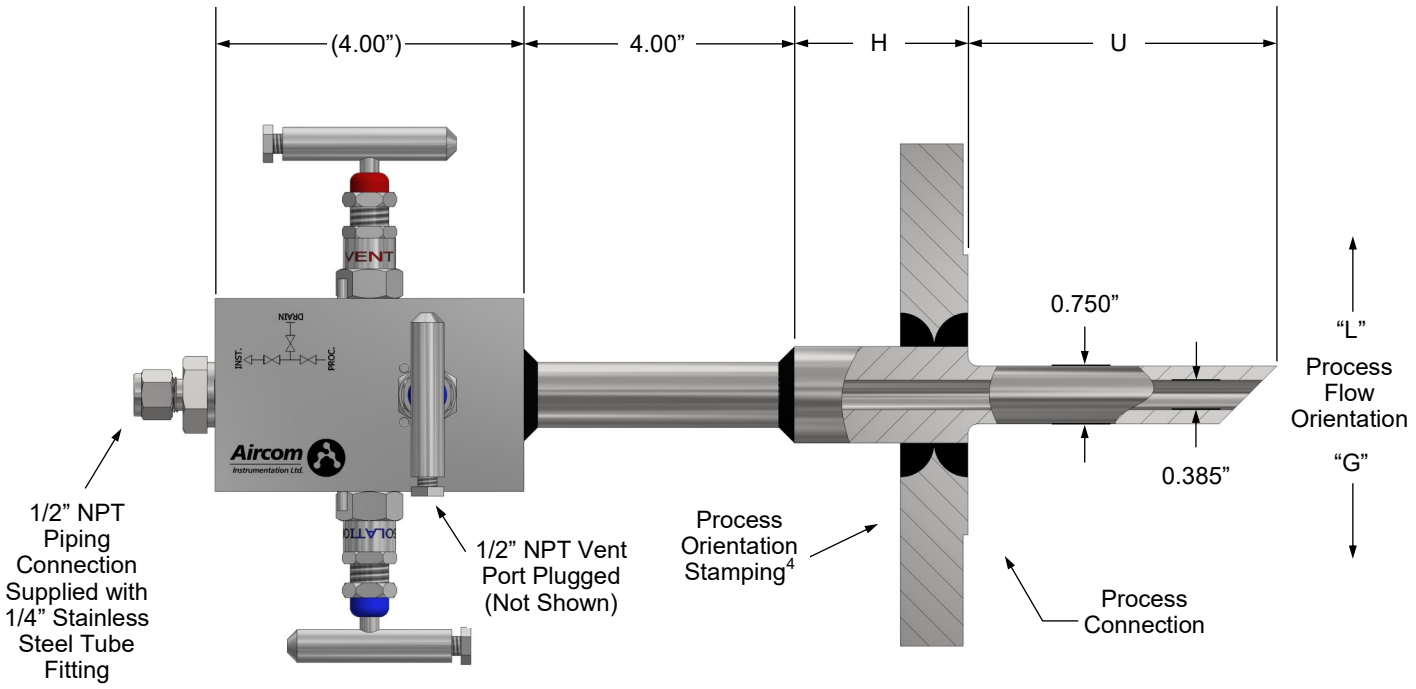

Table 1: Aircom Standard Head Lengths (H) in inches

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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