

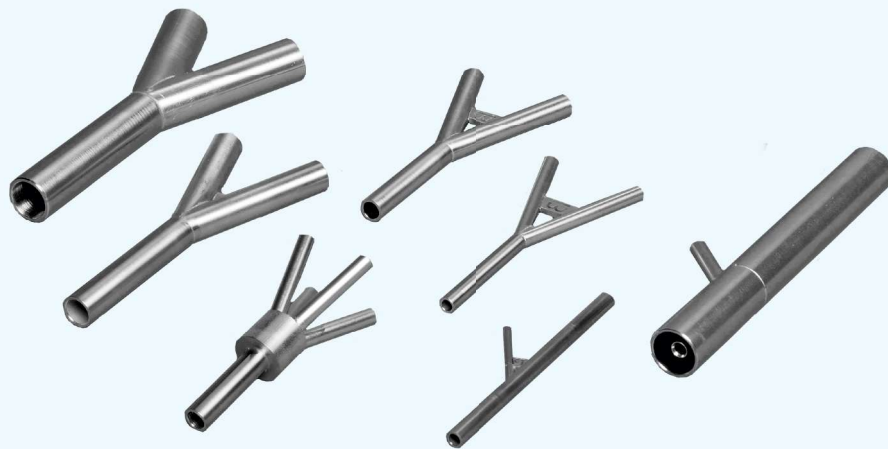
Trusted solutions
for cloud and aerosol measurements

Flow Splitters

Two-Way, Four-Way and Centerline

Models 1100 to 1109

Minimize particle losses and accurately divide sample to your instruments



Features:

- Careful division of particle-laden sample flows
- Minimizes inertial deposition losses of larger particles
- Several convenient stainless steel tubing diameters
- Precisely machined for razor-sharp internal “Y” joint
- Vacuum brazing produces an ultra-clean product
- No warpage or oxidation associated with welding
- Mechanical brace to strengthen exit tubes
- Designs employ either 2” or 4” long legs & 40° or 35° angle between exit tubes

BRECHTEL

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Dedicated to furthering scientific discovery

Specifications & How to Order

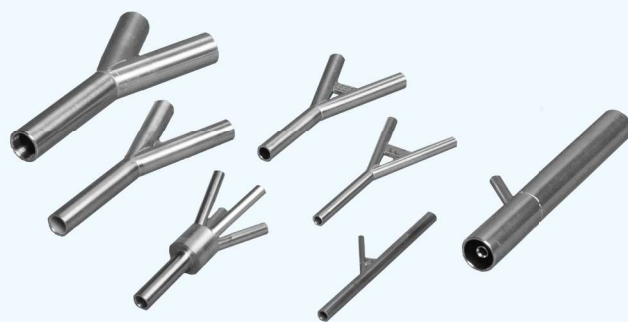
Part No.	Description
1100	Aerosol Sample 2-Way Flow Splitter, 40° angle (1/4" OD, 3/16" ID tubing)
1101	Aerosol Sample 2-Way Flow Splitter, 40° angle (3/8" OD, 1/4" ID tubing)
1102	Aerosol Sample 2-Way Flow Splitter, 40° angle (1/2" OD, 3/8" ID tubing)
1103	Aerosol Sample 2-Way Flow Splitter, 40° angle (3/4" OD, 5/8" ID tubing)
1104	Aerosol Sample 4-Way Flow Splitter, 40° angle (3/8" OD inlet, 1/4" OD outlets, x4)
1105	Aerosol Sample Centerline Splitter with 1/4" OD, 3/16" ID main body tube and 1/16" OD, 0.02" ID tap tube
1105S-075	Aerosol Sample Flow Splitter, 3/4" OD, 5/8" ID main tube with 1/4" OD, 3/16" ID centerline concentric pick off
1106	Aerosol Sample 2-way Flow Splitter, 4" legs, 1/4" OD, 35° angle
1107	Aerosol Sample 2-way Flow Splitter, 4" legs, 3/8" OD, 35° angle
1108	Aerosol Sample 3-way Flow Splitter, 4" legs, 3/8" OD, 35° angle
1109	Aerosol Sample 4-way Flow Splitter, 4" legs, 3/8" OD, 35° angle

Recommended Maximum Inlet Flow Rate and Maximum Particle Diameter corresponding to 50% transmission (Reynolds number of flow 3000)

Part No.	Maximum Flow (lpm)	Diameter (µm)
1100	10.25	6.0
1101	13.70	8.1
1102	20.50	12.3
1103	34.25	20.5
1104	20.50	12.3
1105	0.25	1.3 (for 0.02" ID tube)
1105S-075	6.25	8.0 (for 3/16" ID tube)

Applications

- Instrument flow pick-offs
- Dividing sample flows with minimal losses
- Sampling inlets with well behaved air flow
- Aerosol sampling manifold design
- Instrument sampling performance studies
- Instrument intercomparison studies



Remember your upstream mixer!



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Email us at sales@brechtel.com

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*Some products may be shown with optional accessories, which are sold separately. Items shown may not be to scale.