

CFS Velocity Pressure Cross Flow Sensor

■ Description

ASLI velocity pressure cross flow sensor is an air flow measurement device installed on ductworks to obtain the velocity pressure across the device. Air flow rate can be calculated by measuring the velocity pressure and applying some simple calculations. CFS could be incorporated with ASLI round volume control damper (HDR-T) to measure and control the air volume manually.

■ Materials

- Collar: 0.7mm thickness galvanized steel.
- Cross flow sensor: aluminum tube.

■ Surface Finish

- DMill finish.

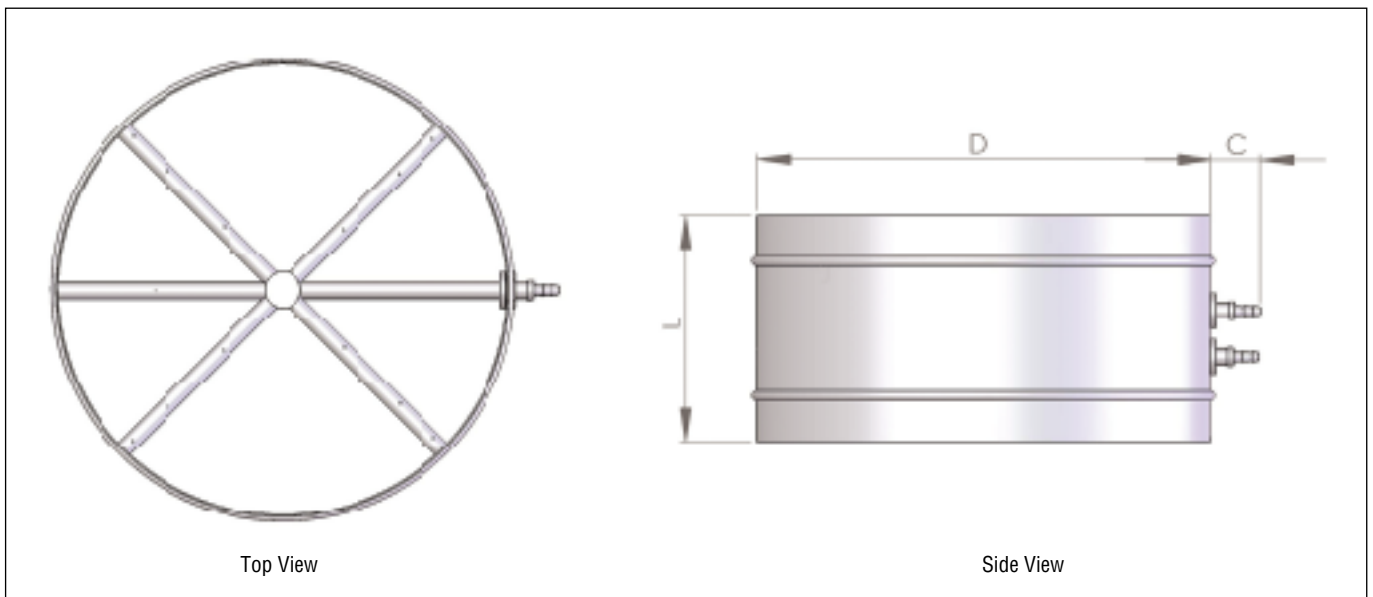
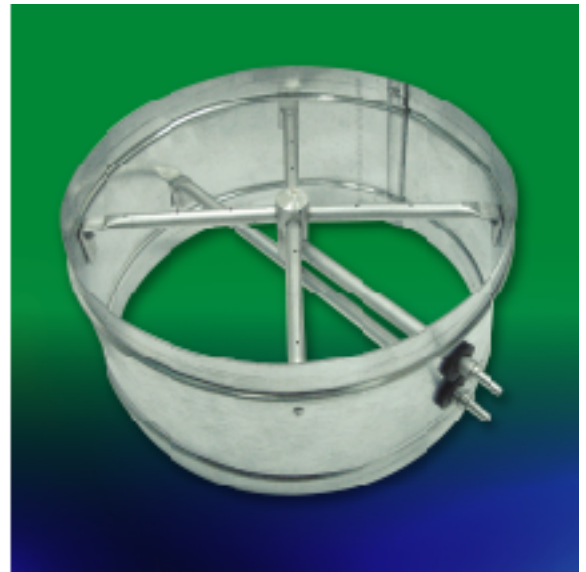
■ Features

- Velocity pressure can be obtained by measuring the differential pressure on the probes provided on the CFS.
- Air flow rate can be calculated by applying some simple formulas with the velocity pressure measured.
- Easy air flow measurement.
- Accurate air flow measurement, flow accuracy $\pm 5\%$.
- 12 total pressure sensing ports and 6 static pressure sensing ports.
- Pressure drop and noise generated are negligible due to its round profile.
- Averaging chamber averages out the pressures across cross sectional plane to obtain the average pressure to reduce pressure variances caused by turbulent flow.
- Gasket on the probes to prevent air leakage.
- Can be incorporated with ASLI round volume control damper (HDR-T) for controlling air volume manually.

■ Standard Sizes

- 100 ϕ , 150 ϕ , 200 ϕ , 250 ϕ , 300 ϕ , 350 ϕ , 400 ϕ (mm).

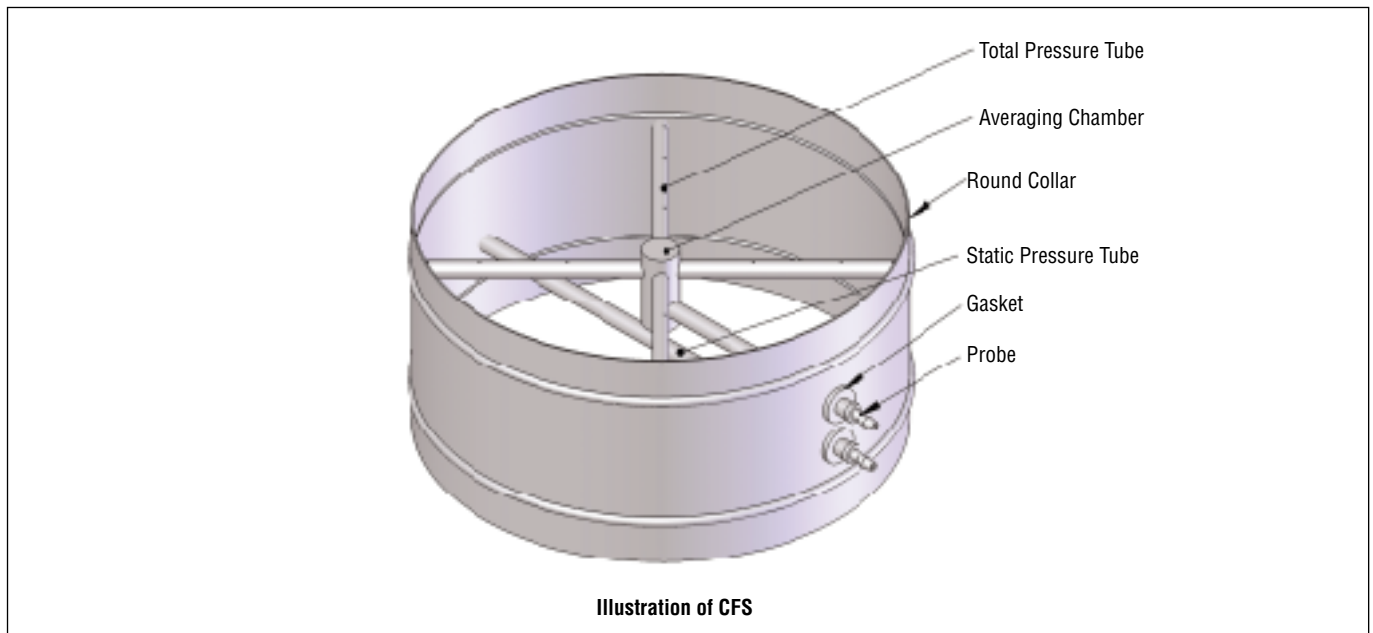
■ CFS Construction Illustrations



CFS Velocity Pressure Cross Flow Sensor

Physical Dimension Unit:mm

Unit Size	D	L	C
100	95	125	30
150	145	125	30
200	195	125	30
250	245	125	30
300	295	125	30
350	345	125	30
400	395	125	30



Selection Guide

Unit Size (mm)	Recommended Air Flow Range (CMH)
100	150 ~ 580
150	250 ~ 950
200	500 ~ 1950
250	800 ~ 3100
300	1250 ~ 4800
350	1850 ~ 7100
400	2400 ~ 9300

- For method of calculating air flow rate from velocity pressure measured, please contact ASLI representatives.
- It is recommended to have 3 duct diameters of straight round inlet duct for optimal flow measurement.

Order Code

Model	Unit Size
CFS	100, 150, 200, 250, 300, 350, 400 (mm)

Example: CFS-200mm