Anemostat®
AIR DISTRIBUTION

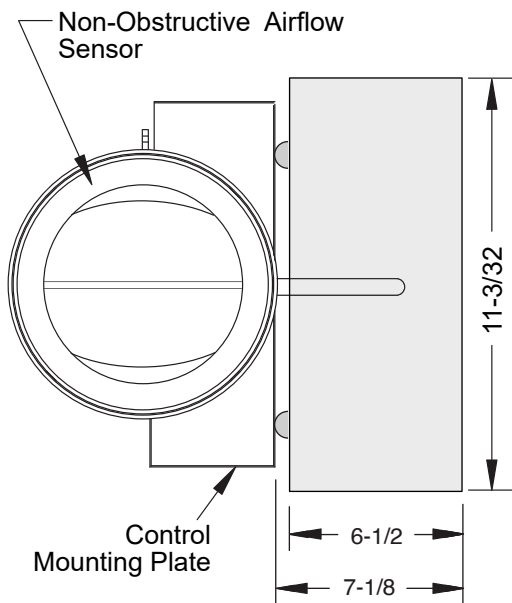# SUBMITTAL SHEET
www.anemostat-hvac.com

PRODUCT FEATURES

•Round inlet sizes from 05" to 16" diameter

•Non-obstructive airflow sensor utilizing a sharp-edged orifice plate with upstream & downstream internal pressure pickup rings

•Available with various orifice plates for extreme flexibility. See page 2.

•This valve is compatible with pneumatic, electric analog, or DDC systems
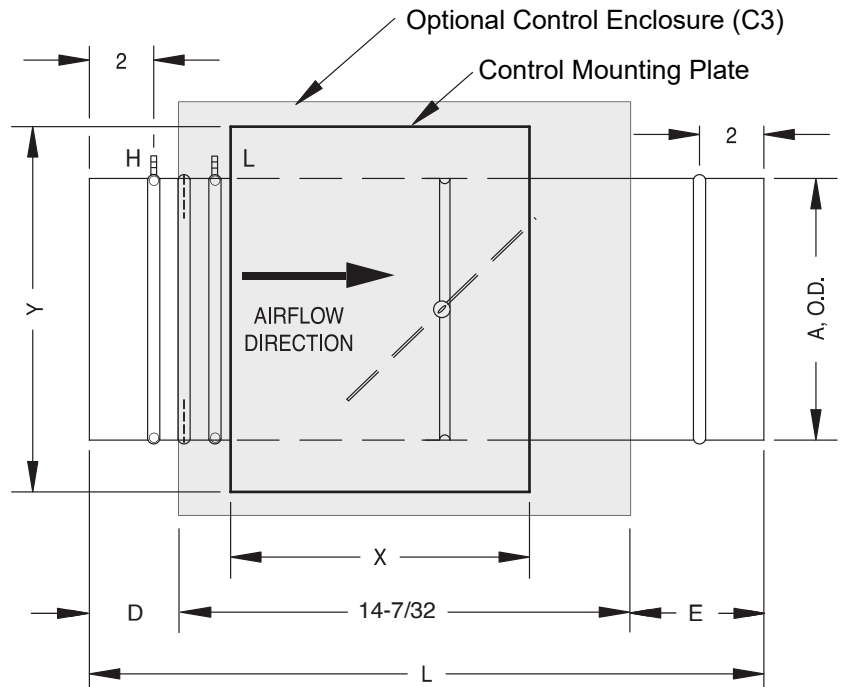
CONSTRUCTION DETAILS

Material:

☐ Galvanized Steel   ☐ 304 Stainless Steel

☐ 316L Stainless Steel

☐ 20 Gauge   ☐ 18 Gauge

☐ Aluminum

☐ 18 Gauge   ☐ 16 Gauge

OPTIONS

☐ Standard Control Enclosure (C3)
  (Control enclosures are Galvzd steel)

☐ Continuously welded construction

☐ 1/2" Solid SS damper shaft

Non-Obstructive Airflow Sensor

Control Mounting Plate

Inlet View

11-3/32

6-1/2

7-1/8

Optional Control Enclosure (C3)

Control Mounting Plate

2

H   L

2

Y

A, O.D.

AIRFLOW DIRECTION

X

D   14-7/32   E

L

STANDARD COVER

HINGED COVER

Unit Size	A, Ø	Airflow Range, CFM	Control Mounting Plate				
			X	Y	L	D	E
05	4-7/8	0 - 275	9	10-7/8	20-5/16	2-1/2	3-19/32
06	5-7/8	0 - 400	9	10-7/8	20-5/16	2-1/2	3-19/32
07	6-7/8	0 - 490	9	10-7/8	20-5/16	2-3/4	3-11/32
08	7-7/8	0 - 665	9	10-7/8	20-5/16	2-3/4	3-11/32
09	8-7/8	0 - 830	9	12-1/8	20-5/16	2-3/4	3-11/32
10	9-7/8	0 - 995	9	12-1/8	20-5/16	2-1/2	3-19/32
12	11-7/8	0 - 1525	10	12-1/16	23-29/32	2-1/2	7-3/16
14	13-7/8	0 - 2070	10	14-1/16	23-29/32	2-1/2	7-3/16
16	15-7/8	0 - 2555	10	16-1/16	23-29/32	2-1/2	7-3/16
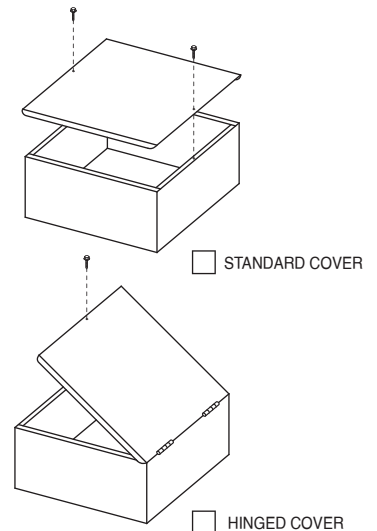
Airflow range shown is for sensor $\Delta P = 1.00$" with S orifice plate. See next page for orifice sizes and K-factors. Consult VAV controller specifications for actual min and max ΔP limits.

All dimensions are in inches.

JOB NAME: **SUBMITTED BY:**

Product information is subject to change without notice.
Drawing is not to scale.

DWG # : AFT-S-0008.1   Date 10-24-24

Rev A

Anemostat
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Model **XAFT**

Exhaust / Control Valve

Non-Obstructing Airflow Sensor
Type 2

Airflow Ranges / Orifice Plates

Airflow Sensor Orifice Plates

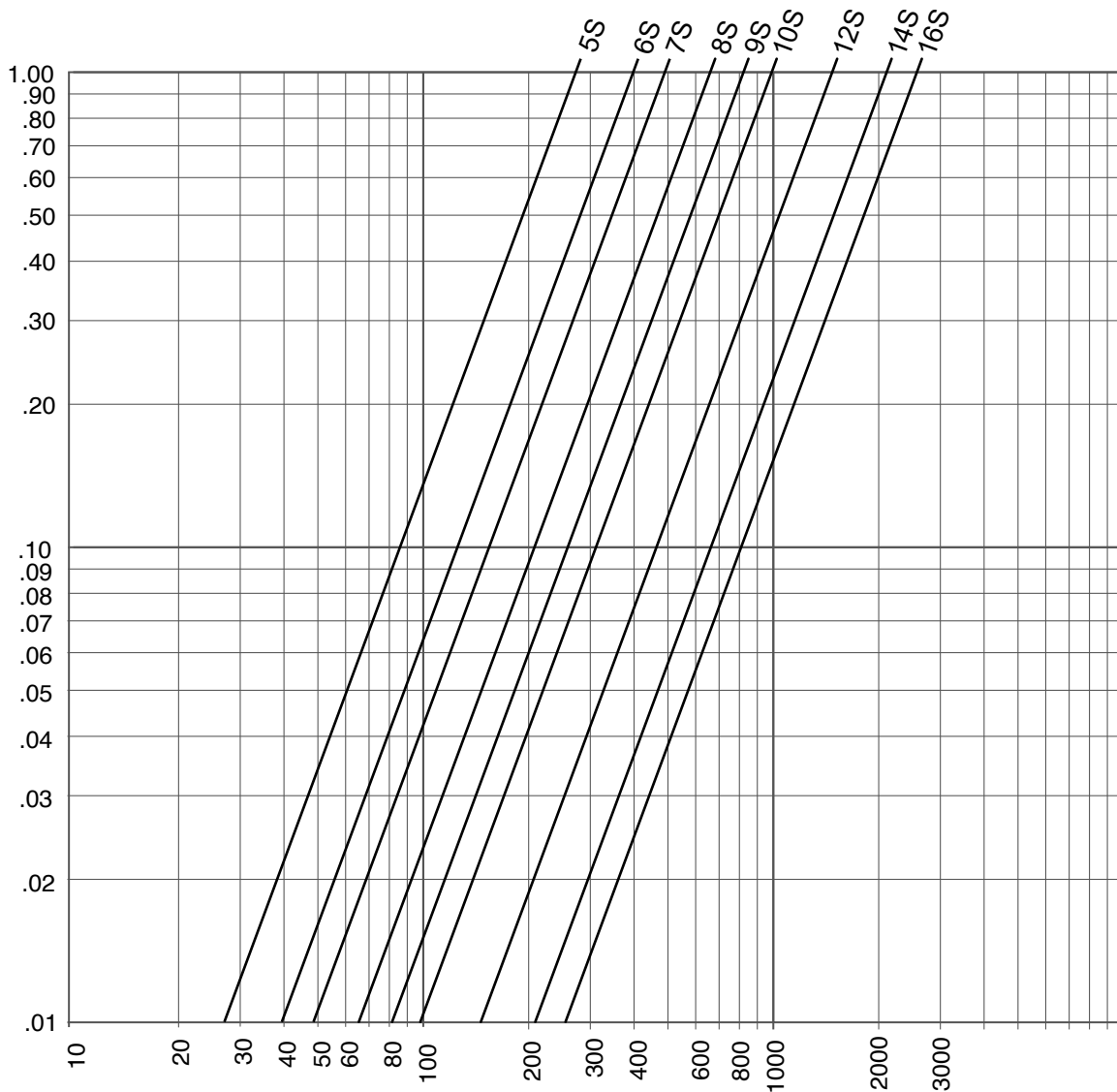The airflow range vs. dP signal can be sized by selecting an appropriate orifice plate

Size S orifice plates are shown in the graph below

The airflow sensor differential pressure (in w.c.), ΔP, at an airflow rate (CFM) for any size orifice plate can be calculated as: $\Delta P = (CFM / K)^2$

Note the K-Factor is the airflow rate, CFM, @ ΔP = 1.00"

Example: 10" XAFT, Orifice Size 10S7, 390 CFM: $\Delta P = (390 / 624)^2 = .39"$

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Model **XAFT**

Exhaust / Control Valve

Non-Obstructing Airflow Sensor
Type 2

Airflow Ranges / Orifice Plates

Inlet Diameter	Orifice Size	K
5"	5S	275
	5S12	159
	5S29	103
6"	6S	400
	6S3	249
	6S2	179
	6S1	129
7"	7S17	731
	7S	488
	7S18	325
8"	8S19	1037
	8S	664
	8S4	464
	8S5	329
9"	9S	827
	9S1	541
	9S2	357
	9S3	225

Inlet Diameter	Orifice Size	K
10"	10S15	1959
	10S	993
	10S11	765
	10S7	624
	10S6	504
	10S13	152
12"	12S20	3124
	12S16	1938
	12S	1524
	12S8	1236
	12S14	747
14"	14S23	4236
	14S28	2776
	14S	2068
	14S10	1507
	14S9	1121
16"	16S25	4940
	16S24	3610
	16S	2554

All dimensions are in inches.

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Rev A