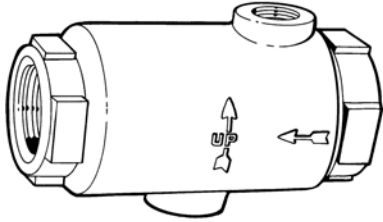


<b>JOB:</b>	<b>REPRESENTATIVE:</b>	
<b>UNIT TAG:</b>	<b>ORDER NO.</b>	<b>DATE:</b>
<b>ENGINEER:</b>	<b>SUBMITTED BY:</b>	<b>DATE:</b>
<b>CONTRACTOR:</b>	<b>APPROVED BY:</b>	<b>DATE:</b>



## In-Line® Air Separator Model IAS Air Control

**DESCRIPTION**

B&G In-Line Air Separator Fittings are designed to effectively separate free air in hydronic heating/cooling systems. The air separators are constructed of a single piece cast iron material with an integral weir, designed to decelerate system flow to maximize air separation. The IAS-1 and IAS-1-1/4 have a 1/8" NPT vent tapping. The IAS-1½ through IAS-3 have a 3/4" NPT tapping to accept a high velocity air vent or can be piped to a plain steel compression tank. All models have a 1/2" NPT bottom tank connection.

**CONSTRUCTION**

One Piece Cast Iron

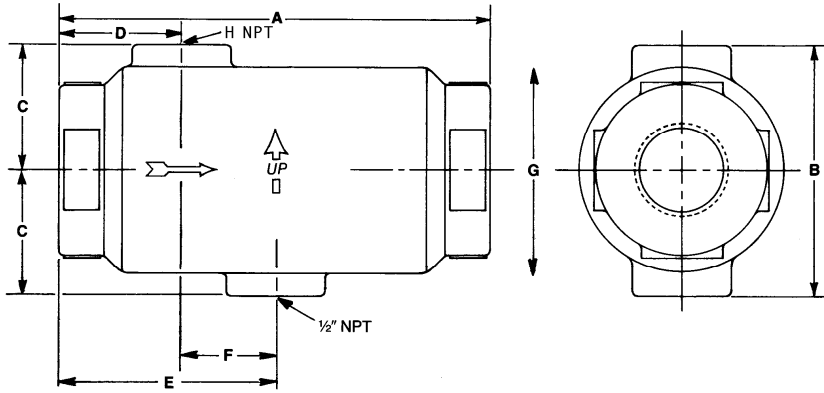
**MAXIMUM OPERATIONAL LIMITATIONS**

Working Pressure: 175 psig (12.1 Bar)

Temperature: 300°F (149°C)

**SCHEDULE**

MODEL NUMBER	PART NUMBER	SIZE NPT	VENT TAPPING	MAXIMUM FLOW GPM (l/s)	TAGGING INFORMATION	QUANTITY
IAS-1	112118	1"	1/8"	15 (0.95)		
IAS-1-1/4	112119	1-1/4"	1/8"	25 (1.58)		
IAS-1-1/2	112097	1-1/2"	3/4"	35 (2.21)		
IAS-2	112098	2"	3/4"	50 (3.15)		
IAS-2-1/2	112099	2-1/2"	3/4"	75 (4.75)		
IAS-3	112100	3"	3/4"	125 (7.89)		



MODEL NUMBER	SIZE NPT	DIMENSIONS INCHES (MM)								APPROX. SHPG.WGT. LBS. (KG)
		A	B	C	D	E	F	G	H	
IAS-1	1"	6-1/8 (156)	3-1/2 (89)	1-3/4 (45)	1-3/4 (45)	3-1/16 (78)	1-5/16 (33)	2-7/8 (73)	1/8"	3-3/4 (1.7)
IAS-1-1/4	1-1/4"	6-1/8 (156)	3-1/2 (89)	1-3/4 (45)	1-3/4 (45)	3-1/16 (78)	1-5/16 (33)	2-7/8 (73)	1/8"	3-1/2 (1.6)
IAS-1-1/2	1-1/2"	8-1/8 (207)	4-1/2 (114)	2-1/4 (57)	2-3/16 (56)	4-1/16 (103)	1-7/8 (48)	4 (102)	3/4"	8-1/2 (3.9)
IAS-2	2"	8-1/8 (207)	4-1/2 (114)	2-1/4 (57)	2-3/16 (56)	4-1/16 (103)	1-7/8 (48)	4 (102)	3/4"	7-1/2 (3.4)
IAS-2-1/2	2-1/2"	10-1/8 (257)	6-3/8 (162)	3-3/16 (81)	2-3/4 (70)	5-1/16 (129)	2-5/16 (59)	5-7/8 (149)	3/4"	23 (10.4)
IAS-3	3"	10-1/8 (257)	6-3/8 (162)	3-3/16 (81)	2-3/4 (70)	5-1/16 (129)	2-5/16 (59)	5-7/8 (149)	3/4"	21-1/2 (9.8)

Dimensions are subject to change. Not to be used for construction purposes unless certified.

**TYPICAL SPECIFICATION**

Furnish and install as shown on plans a horizontal in-line air separator designed to effectively separate free air in hydronic heating/cooling systems. The air separator shall be heavy duty cast iron designed to function satisfactorily at working pressures up to 175 psi (12.1 bar) and liquid temperatures up to 300 °F (149 °C). The air separator shall have an integral weir designed to decelerate system flow to maximize air separation.

**NOTE:** Chose either A or B to complete this specification.

A. For Use with Conventional Compression Tanks  
(Excludes IAS-1 and IAS-1¼)

The in-line air separator shall also assist in eliminating free air in the system by directing the air to a conventional compression tank while reduced oxygenated water is circulated to the system. The air separator shall allow the expansion of the system fluid to be directed to the compression tank.

B. For Use with Precharged Bladder and Diaphragm Expansion Tanks

The in-line air separator shall also assist in eliminating free air from the system by directing the air to an air vent attached to the separator while reduced oxygenated water is circulated to the system. The in-line air separator shall allow expansion of the system fluid to be directed to a precharged (Choose one: BLADDER OR DIAPHRAGM:)  
\_\_\_\_\_ expansion tank.

The in-line Air Separator shall be Xylem Bell & Gossett Model No. \_\_\_\_\_ In-Line Air Separator.

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