Building Services Products Ltd

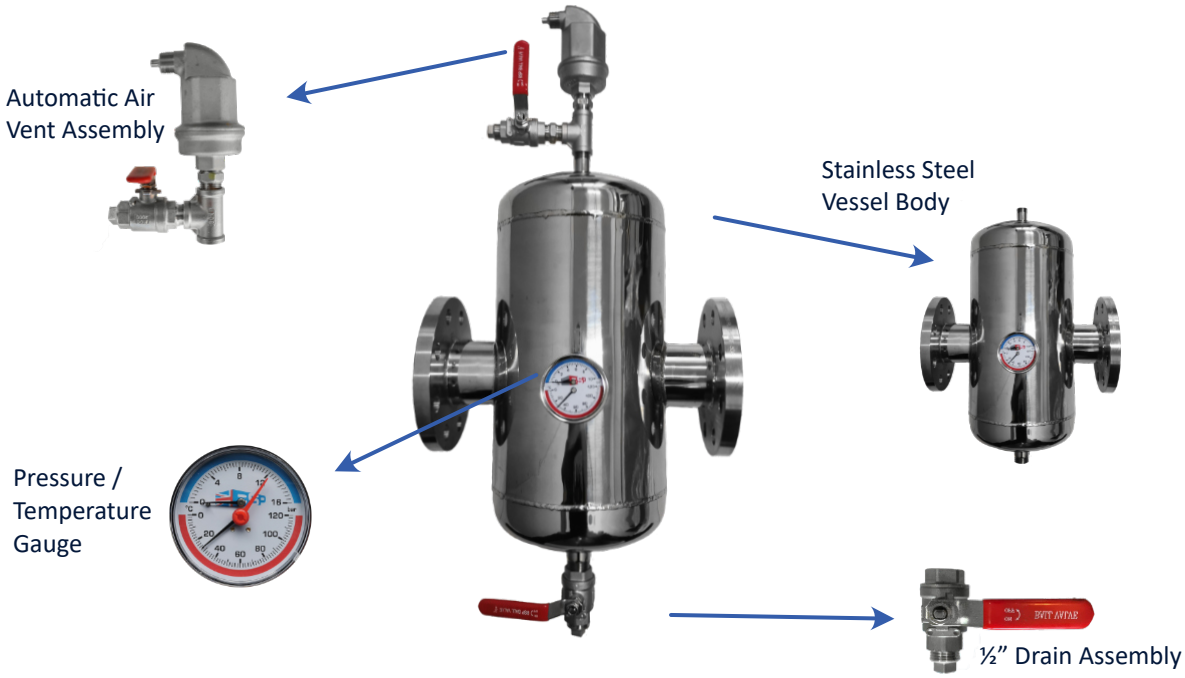
DIRT AND AIR SEPARATOR

'Quality Shines Through'

SPECIFICATION SHEET

Prod Code:	BSP Ref:	Description
DAS202031	2"BSP Scr SS Dirt & Air Separator	2"(DN50) BSP Screwed (10Bar) Stainless Steel Dirt & Air Separator
DAS202032	2"PN10 Flg SS Dirt & Air Separator	2"(DN50) PN10 Flanged (10Bar) Stainless Steel Dirt & Air Separator
DAS202033	2½"PN10 Flg SS Dirt & Air Separator	2½"(DN65) PN10 Flanged (10Bar) Stainless Steel Dirt & Air Separator
DAS202034	3"PN10 Flg SS Dirt & Air Separator	3"(DN80) PN10 Flanged (10Bar) Stainless Steel Dirt & Air Separator
DAS202035	4"PN10 Flg SS Dirt & Air Separator	4"(DN100) PN10 Flanged (10Bar) Stainless Steel Dirt & Air Separator

Feature:	Description:
Maximum System Working Pressure	10Bar
Maximum Working Temperature	110°C
Connection Sizes	2" (DN50) BSP Screwed 2" (DN50) PN10 Flanged 2½" (DN65) PN10 Flanged 3" (DN80) PN10 Flanged 4" (DN100) PN10 Flanged
Materials	304SS - Body, Valves and all Fittings
Internal Coalescence Components	316SS Spiral Wound Mesh
Approvals	PED 2014/68/EU
Servicing	Fully Serviceable
Automatic Air Vent	304SS
Manual Venting	Yes, 304SS IV
Drain Valve	¾" 304SS IV - DN50 & DN65 1" 304SS IV - DN80 & DN100



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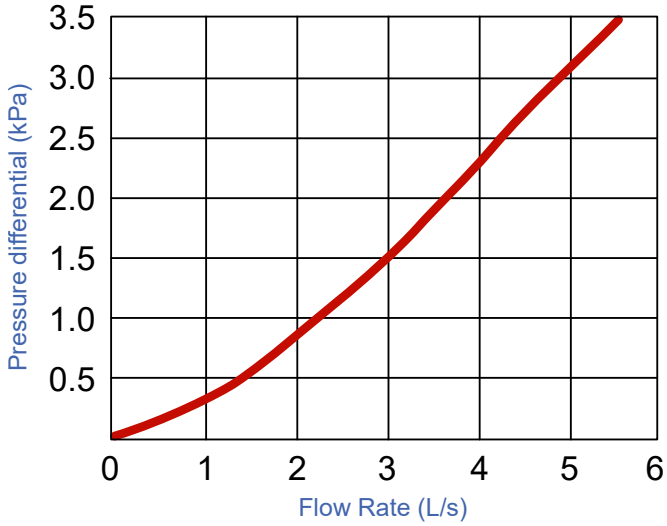
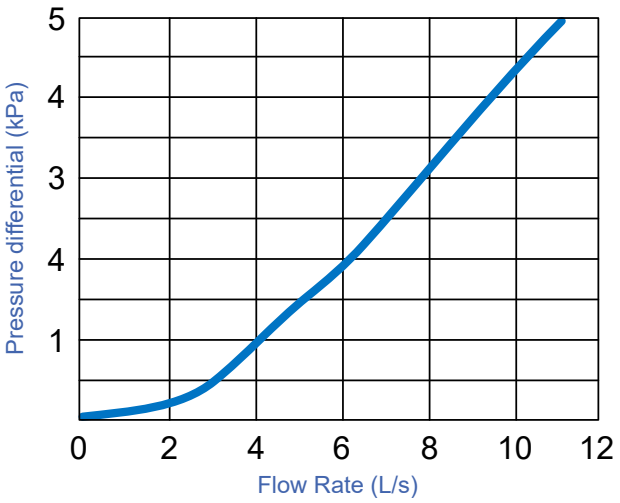
Version 2.1 08/2022

PRESSURE DROPS vs FLOW RATE

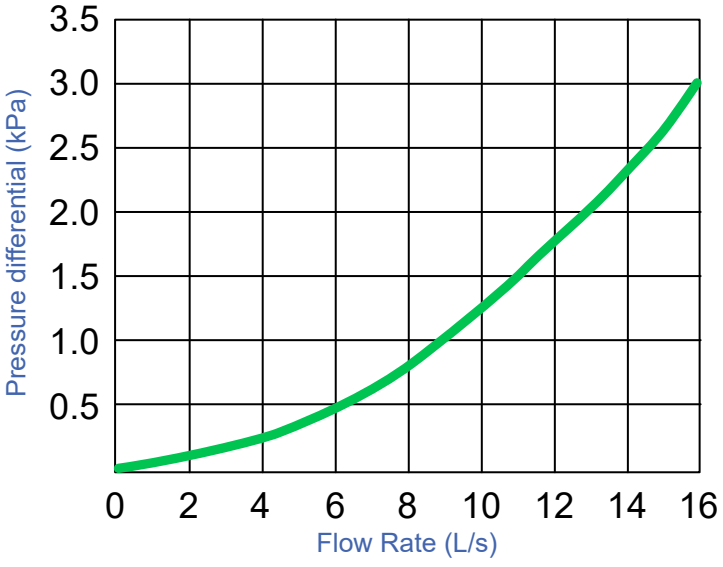
2” (DN50) PN10 and 2” BSP Screwed



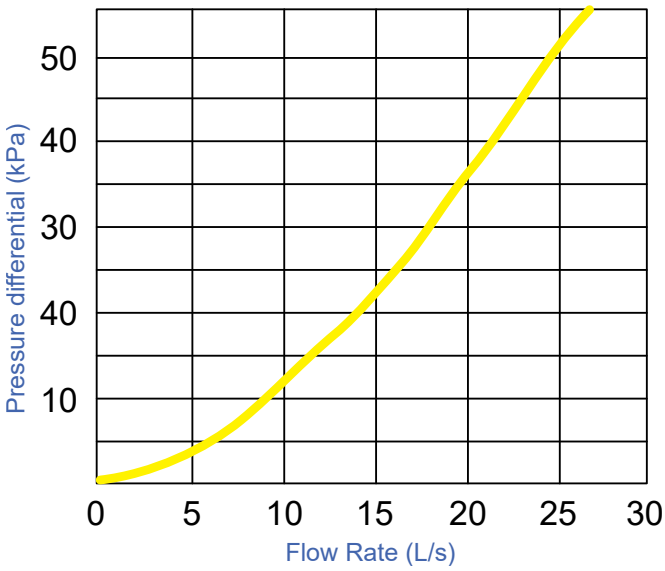
2 ½” (DN50) PN10



3” (DN80) PN10



4” (DN100) PN10



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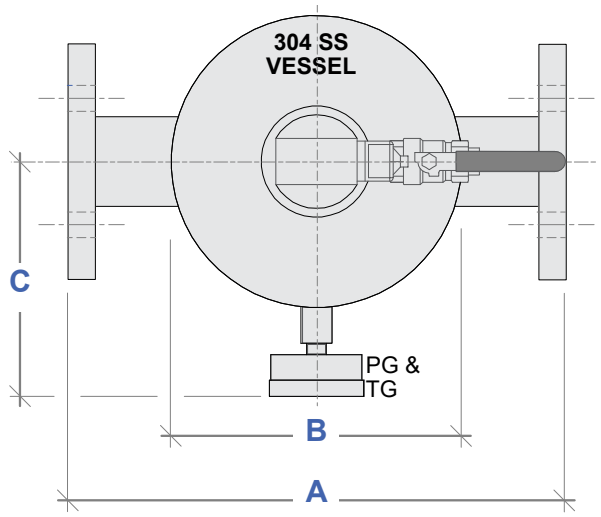
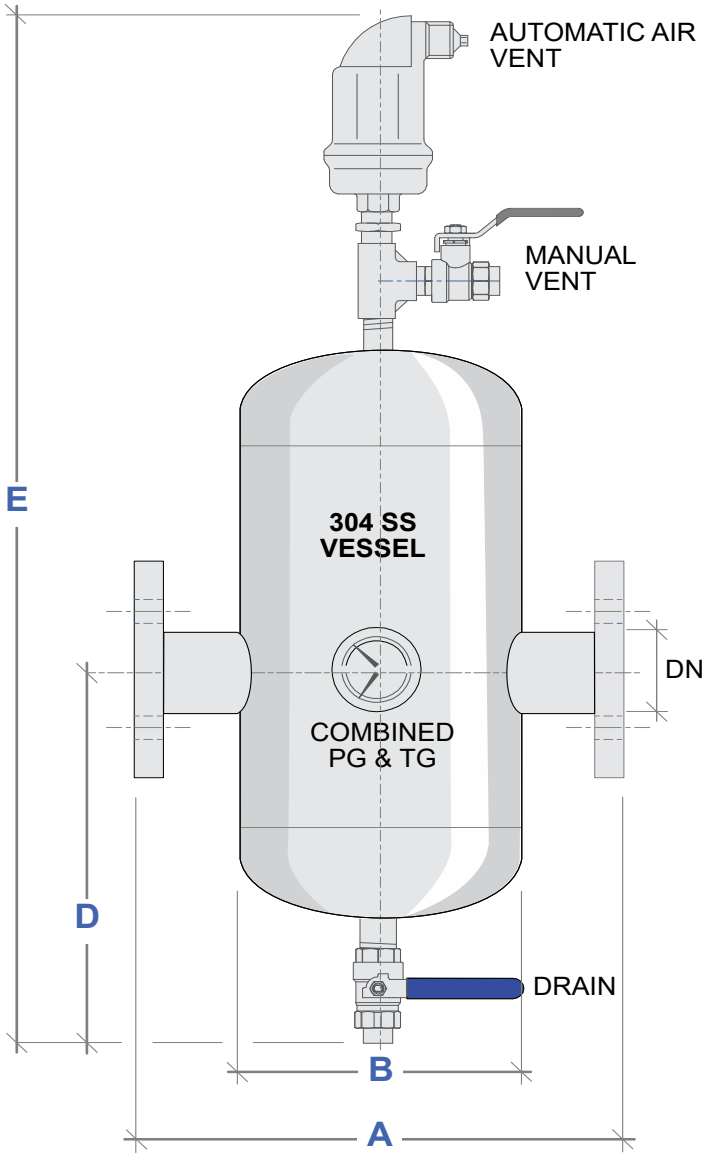
LINE DRAWINGS

TOP VIEW



FRONT VIEW



Note:

1. All dimensions are in mm.
2. This specification sheet is designed as a guide only and should not be regarded as wholly accurate in every detail.

Product Code	Size		Max work press.	Empty Weight	Capacity (Litres)	Conn. Type	Flange		Dimensions (mm)					Drain Conn.
	DN	mm					Holes	Rating	A	B	C	D	E	
DAS202031	50	60.3	10Bar	11.45kg	13.8	Scr BSP			350	205	165	285	780	¾”
DAS202032	50	30.3	10Bar	16.45kg	13.8	Flanged	4x18Ø	PN10	350	205	165	285	780	¾”
DAS202033	65	76.1	10Bar	16.50kg	14.1	Flanged	4x18Ø	PN10	350	205	165	285	780	¾”
DAS202034	80	88.9	10Bar	24.50kg	31.0	Flanged	8x18Ø	PN10	470	256	190	360	990	1”
DAS202035	100	114.3	10Bar	26.75kg	32.2	Flanged	8x18Ø	PN10	470	256	190	360	990	1”

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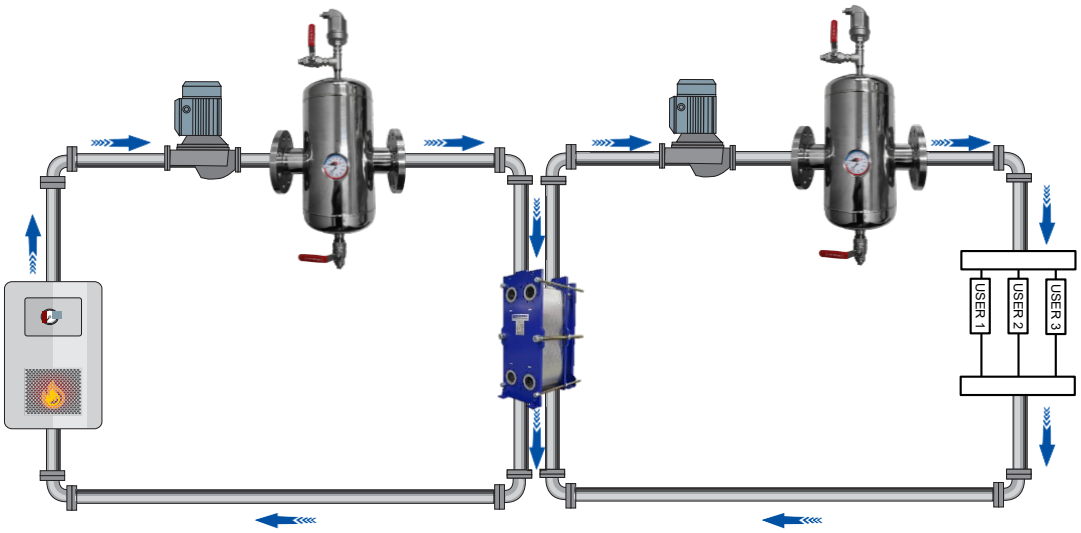
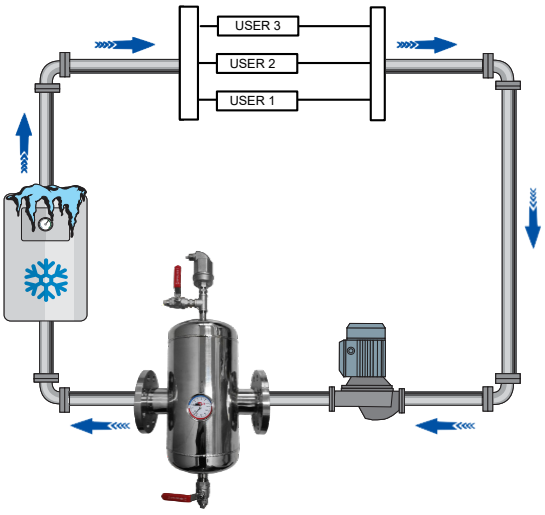
INSTALLATION AND CONNECTION OPTIONS

The BSP Dirt & Air Separator must be installed at the hottest point in the system. For a heating system, installation should be down stream of the boiler. For cooling systems, the hottest point is on the water return pipe. The higher the temperature is, the more easily micro-bubbles rise. The air release based on 'Henry's Law', which states that air is released from water as the temperature increases or the pressure decreases. The micro-bubble separator makes clever use of this very phenomenon and coducts a dearation cycle through the system.

Basic heating schematic



Basic cooling schematic



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