

# spirax sarco®

## S6 Austenitic Stainless Steel Separator

### Description

The S6 is an austenitic stainless steel (316L) baffle type separator used for the removal of entrained liquids in steam, compressed air and gas systems.

### Sizes and pipe connections

1/2", 3/4", 1", 1-1/4", 1-1/2", 2".

Screwed NPT, butt weld, socket weld.

Flanged ANSI B16.5 Class 150 or 300 with screwed NPT drain and air vent.

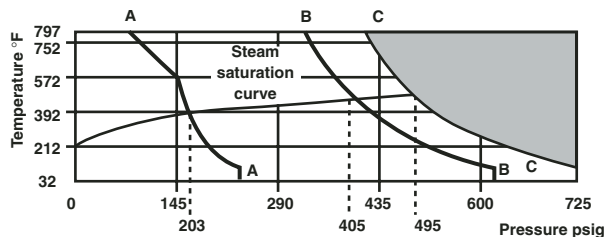
### Optional extras

Insulation jackets are available which will increase the performance of the separator.

### Pressure Shell Design Conditions

<b>PMA</b> Max. allowable pressure	ANSI 150	230 psig/-20° to 100°F	15.8 barg/-29 to 37.8°C
	ANSI 300	600 psig/-20° to 100°F	41.4 barg/-29 to 37.8°C
	SW, BW, NPT	720psig/-20° to 100°F	49.3 barg/-29 to 37.8°C
<b>TMA</b> Max. allowable temperature	ANSI 150	800°F/0 to 80 psig	426.7°C/0 to 5.5 barg
	ANSI 300	800°F/0 to 330 psig	426.7° C/0 to 22.8 barg
	SW, BW, NPT	800°F/0 to 410 psig	426.7°C/0 to 28.3 barg

### Operating range



 The product must not be used in this region.

\*PMO Maximum operating pressure for saturated steam  
 A - A Flanged ANSI Class 150  
 B - B Flanged ANSI Class 300  
 C - C Screwed NPT, socket weld and butt weld

### Materials

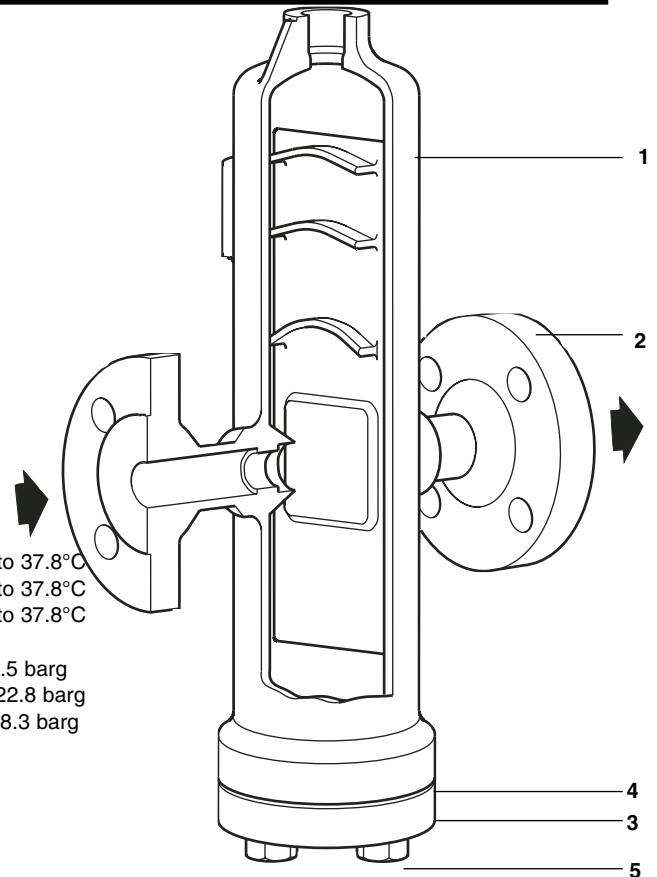
No	Description	Material	
1	Body	Austenitic stainless steel 316L	ASTM A351CF3M
2	Flange ANSI	Austenitic stainless steel	ASMA A182 F316L
3	Cover	Stainless steel	ASTM A182 F316L
4	Cover gasket	Reinforced exfoliated graphite	
5	Bolt	Stainless steel	Grade A4-80

### Certification

The product is available with certification EN 10204 3.1.B for body and flange as standard, all certification must be requested when placing an order.

*Local regulations may restrict the use of this product below the conditions quoted. Limiting conditions refer to standard connections only.  
 In the interests of development and improvement of the product, we reserve the right to change the specification.*

TI-P023-12-US 06.01



Flanged S6 shown

**Capacities** See TIS 7.003A

# S6 Austenitic Stainless Steel Separator

**Dimensions** (approximate) in mm and inches

Size	Screwed A	sw A	bw A	ANSI 150 A	ANSI 300 A	B	C	D	F	G
1/2"	(130) 5.12"	(130) 5.12"	(130) 5.12"	(204) 8.03"	(204) 8.03"	(162) 6.38"	(292) 11.50"	(90) 3.54"	1"	1/2"
3/4"	(130) 5.12"	(130) 5.12"	(130) 5.12"	(212) 8.35"	(212) 8.35"	(158) 6.22"	(345) 13.58"	(90) 3.54"	1"	1/2"
1"	(178) 7.01"	(178) 7.01"	(178) 7.01"	(260) 10.24"	(260) 10.24"	(184) 7.24"	(387) 15.24"	(90) 3.54"	1"	1/2"
1-1/4"	(190) 7.48"	(190) 7.48"	(190) 7.48"	(304) 11.97"	(320) 12.60"	(209) 8.23"	(438) 17.24"	(90) 3.54"	1"	1/2"
1-1/2"	(220) 8.66"	(220) 8.66"	(220) 8.66"	(344) 13.54"	(396) 15.59"	(221) 8.70"	(508) 20.00"	(90) 3.54"	1"	1"
2"	(214) 8.43"	(214) 8.43"	(214) 8.43"	(342) 13.46"	(354) 13.94"	(221) 8.70"	(558) 21.97"	(90) 3.54"	1"	1"

**Weights/volume** (approximate) in lbs and US gallons

Size	Weight		Volume	
	Scr/sw/bw	Flanged	Scr/sw/bw	Flanged
1/2"	7.3	9.9	0.22	0.22
3/4"	8.4	11.0	0.26	0.27
1"	15.4	20.9	0.66	0.69
1-1/4"	30.8	41.8	1.19	1.22
1-1/2"	48.4	59.4	2.03	2.09
2"	50.6	63.8	2.22	2.3

Sizing: See TIS 7.003A US

## Installation

Install in a horizontal pipeline with the drain directly below.

To ensure that any separated liquid is drained quickly, a suitable liquid drainer must be connected to the drain connection.

For those steam systems where air can be present, air can collect in the upper portion of the separator. In this situation a suitable air vent should be connected to the air vent connection.

If an air vent is not being fitted then the connection must have the plastic transit protection plug removed and must have a carbon steel class 3000 lb plug fitted.

## Safety

When replacing product ensure any pressure is isolated and safely vented to atmosphere. Allow time for temperature to normalise after isolation to avoid danger of burns and consider whether protective clothing is required (including safety glasses).

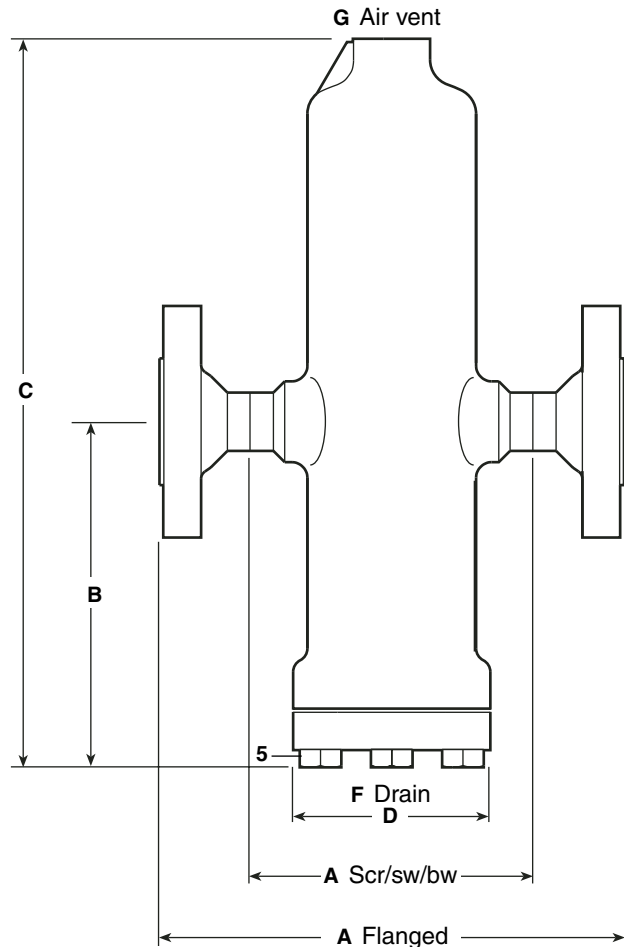
**Note:** The cover gasket contains a thin stainless steel support ring which may cause physical injury if not handled and disposed of carefully.

## Disposal



The product is recyclable. No ecological hazard is anticipated with the disposal of this product providing due care is taken.

## How to order

3/4" Spirax Sarco S6 separator with carbon steel body flanged to ANSI 150.



## Recommended tightening torques

Item	 or 	lb.ft
5	3/4" M12 x 1.38	29.5 - 33.0