

spirax/sarco®

S5 Carbon Steel Separator

Description

The S5 is a carbon steel 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.

Limiting conditions

PMA

Maximum body design conditions

ANSI 300

TMA

Maximum design temperature

797°F

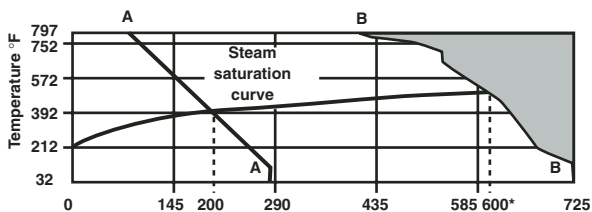
Designed for a maximum cold hydraulic test pressure of:

ANSI Class 150 435 psig

ANSI Class 300 1102 psig

Scr, sw, bw 1102 psig

Operating range



*PMO Maximum operating pressure for saturated steam

A - A Flanged ANSI Class 150

B - B Flanged ANSI Class 300, screwed NPT, socket weld and butt weld

Materials

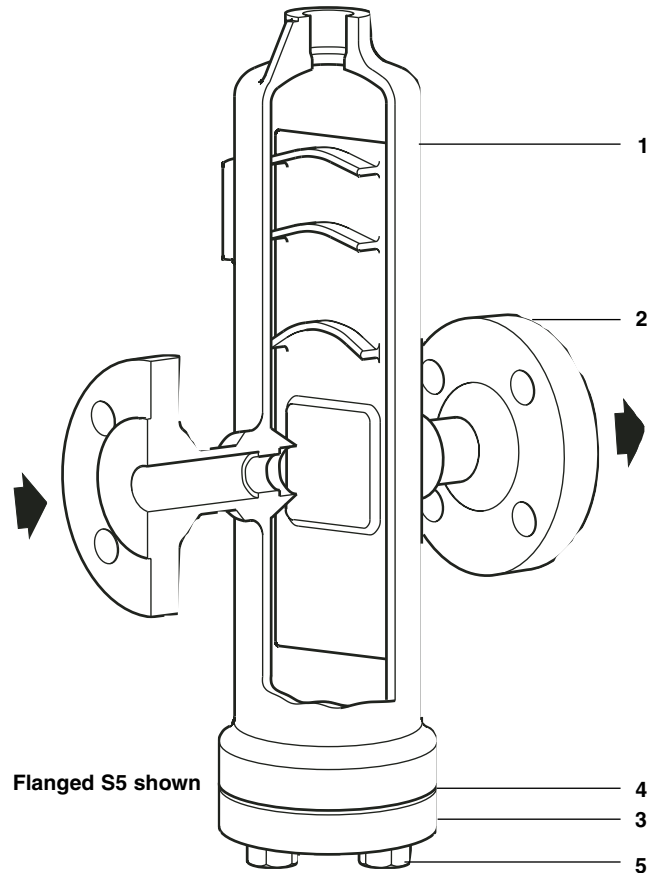
No	Description	Material	
1	Body	Carbon steel	ASTM A216 WCB
2	Flange ANSI	Carbon steel	ASTM A105N
3	Cover	Carbon steel	ASTM A105N
4	Cover gasket	Reinforced exfoliated graphite	
5	Bolt	Steel	Steel

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-P023-11-US 06.01



Flanged S5 shown

Capacities See TIS 7.003A US

Dimensions (approximate) in mm and inches

Size	Screwed	sw	bw	ANSI 150	ANSI 300	B	C	D	F	G
	A	A	A	A	A					
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).

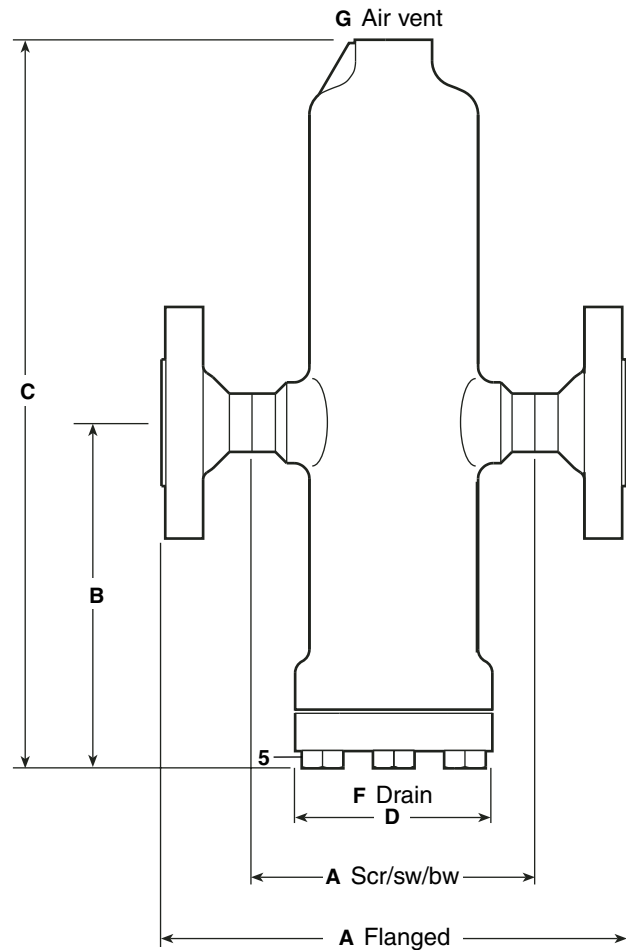
Note: The cover gasket contains a thin stainless steel support ring which may cause physical injury if not handled and disposed of carefully.

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 S5 separator with carbon steel body flanged to ANSI 150.



Recommended tightening torques

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