

spirax /sarco

Carbon Steel Separator

The S5 is a carbon steel baffle type separator used for the removal of entrained liquids in steam, compressed air and gas systems.

Insulation jackets are available which will increase the performance of the separator, (see TI-P138-01).

Standards

This product fully complies with the requirements of the European Pressure Equipment Directive 97/23/EC and carries the € mark when so required.

Certification

This product is available with certification to EN 10204 3.1. Note: All certification/inspection requirements must be stated at the time of order placement.

Sizes and pipe connections 1/2", 3/4", 1", 11/4", 11/2" and 2" Screwed BSP or NPT, butt weld, socket weld.

DN15, DN20, DN25, DN32, DN40 and DN50.

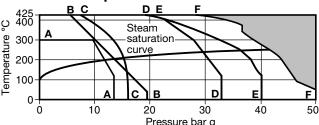
Flanged EN 1092 PN40 with screwed BSP drain and air vent.

Flanged BS 1560 (ANSI B 16.5) Class 150 or 300 with screwed NPT drain and air vent.

Flanged JIS 2201/KS 10K and 20K with screwed BSP drain and air vent.

Note: For larger sizes use an S7 separator. See TI-P138-03.

Pressure / temperature limits

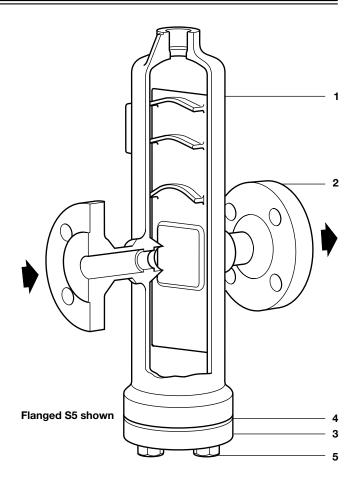


Pressure bar g The product must not be used in this region.

A - A B - B C - C D - D E - E F - F Flanged JIS / KS 10K Flanged ANSI Class 150

Flanged ANSI Class 150
Flanged EN 1092 PN16
Flanged JIS / KS 20K
Flanged EN 1092 PN40
Flanged ANSI Class 300, screwed BSP, NPT, socket weld and butt weld

Body de	esign conditions	PN50/ANSI 300			
PMA	Maximum allowable pressure	50 ba	ar g @ 50°C		
TMA	Maximum allowable temperatu	ıre 425°C	@ 28 bar g		
Minimu	m allowable temperature		-10°C		
		JIS / KS 10K	12.5 bar g		
	Maximum operating pressure for saturated steam service	PN16	13.8 bar g		
		ANSI 150	15.0 bar g		
PMO		JIS / KS 20K	30.0 bar g		
		PN40	35.9 bar g		
		ANSI 300	41.4 bar g		
		Scrd/SW/BW	41.4 bar g		
TMO	Maximum operating temperatu	ıre 425°C	@ 28 bar g		
Minimu	m operating temperature		0°C		
Designe	ed for a maximum cold hydraulid	c test pressure c	f 76.6 bar g		



Materials

No.	. Part	Material	
1	Body	Carbon steel	1.0619 +N/ASTM A216 WCB
2	Flange	Carbon steel	DIN 17243 C22.8/ASTM A105N
3	Cover	Carbon steel	DIN 17243 C22.8 (1.0460)/ASTM A105N
4	Cover gasket	Reinforced ex	ofoliated graphite
5	Bolt	Steel	ASTM A193 B7

Capacities See TI-S33-06

Dimensions (approximate) in mm

Size	Screwed SW, BW A	PN16 A	PN40 A	ANSI 150 A	ANSI 300 A	JIS / KS 10K & 20K A	В	С	D	F	G	н
DN15 - ½"	130	-	204	204	204	204	162	292	90	1"	1/2"	90
DN20 - ¾"	130	-	212	212	212	212	158	345	90	1"	1/2"	90
DN25 - 1"	178	-	260	260	260	260	184	387	90	1"	1/2"	127
DN32 - 11/4"	190	-	274	274	274	274	209	438	90	1"	1/2"	141
DN40 - 1½"	220	-	310	310	310	310	221	508	90	1"	1"	168
DN50 - 2"	214	-	310	310	310	310	221	558	90	1"	1"	168

Weights/volume (approximate) in kg and litres

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Size	Weig	ht	Volume			
	Scrd/SW/BW	Flanged	Scrd/SW/BW	Flanged		
DN15 - 1/2"	3.3	4.5	0.84	0.85		
DN20 - ¾"	3.8	5.0	1.00	1.03		
DN25 - 1"	7.0	9.5	2.50	2.60		
DN32 - 11/4"	14.0	19.0	4.50	4.60		
DN40 - 1½"	22.0	27.0	7.70	7.90		
DN50 - 2"	23.0	29.0	8.40	8.70		

Safety information, installation and maintenance

For full details see the Installation and Maintenance Instructions (IM-P023-55) supplied with the product.

Installation note:

Install in a horizontal pipeline with the drain directly below.

To ensure that any separated liquid is drained quickly, a suitable steam trap/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.

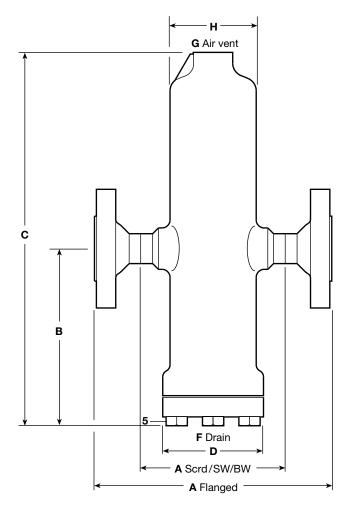
If an air vent is not being fitted then the connection must have the plastic transit protection plug removed and must have a carbon steel class 3000 lb plug fitted.

Disposal:

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

How to order

Example: 1 off Spirax Sarco DN20 S5 separator with a carbon steel body flanged to EN 1092 PN40.



Recommended tightening torques

Item		or mm		N m
5	19 A/F		M12 x 35	40 - 45