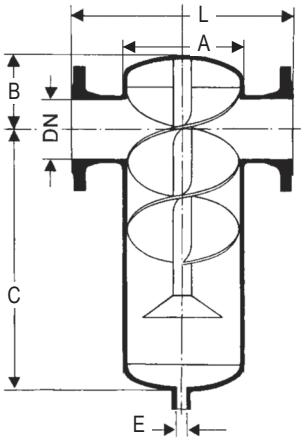
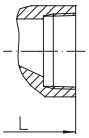
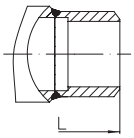
Steam Separator | Carbon Steel | ANSI 150 / ANSI 300 | NPS 1/2" to 12" / DN15 to 300



Steam Separator



threaded



butt weld

A steam separator (sometimes referred to a moisture separator) is used to separate entrained liquid or moisture droplets that cause "wet steam," a common condition found within most saturated steam systems.

Model	Steam Separator	
Body Material	Carbon Steel	
Rating	ANSI 150 / ANSI 300	
Sizes*	Inlet/Outlet	NPS 1/2" to 12" *DN 15 to 300*
	Drain	NPS 1/2", 3/4", 1", 1 1/2" *DN 15, 20, 25, 40*
	* Specialty larger sizes available upon request.	
Connections*	Flanged	acc. to ASME B16.5
	Threaded	NPT thread acc. to ANSI B1.20.1
	Butt Weld	ASME B16.25 (Note restrictions on maximum operating pressure / temperature according to design.)
	* Drain connections are threaded (acc. to ASME B1.20.1). Optional flanged drain connection available upon request.	
Features	• Reduces maintenance of expensive control valves. • Improves process productivity and/or product quality. • Removal of the water barrier between your steam and secondary media, product, or process. • Reduce pipe corrosion and wiredrawing in your systems or equipment. • Increase our manufacturing warranty from 1 year to 2 years when installed before our control or pressure reducing valves. • Product's design with correct sizing guarantees an efficient drying effect close to 99%.	

Pressure Drop	Pressure drop is equivalent to a pipe piece twice the size of the "L" dimension shown in the drawing.
Mounting	Position Vertical* (Standard) * Optional horizontal configuration available.
Primary Applications	• In compressed air, steam, and gas systems retaining dirt particles, oxides, and liquid condensates like water and oil. • Downstream of steam boilers and fast steam generators • Between steam boiler and superheater • Upstream the main steam line header • In heating and steam lines • Upstream turbines, steam engines, and other steam equipment • In direct steam injection applications • Steam sprays and air conditioners

Bill of Materials

Part Name	Spare Parts	Materials
Separator		SA106

Steam Separator | Carbon Steel | ANSI 150 / ANSI 300 | NPS 1/2" to 12" / DN15 to 300

Dimensions & Weights

Connection	Size NPS | *DN*	Drain (E) NPS | *DN*	Dimensions (inches | *millimeters*) L Face-to-Face	A Body Diameter	B	C	Weights (lbs | *kg*)
Flanged	1/2" | *15*	1/2" | *15*	8.27 | *210*	3.5 | *88.9*	3.1 | *80*	12.2 | *310*	9.9 | *4.5*
	3/4" | *20*	1/2" | *15*	8.66 | *220*	3.5 | *88.9*	3.7 | *95*	15.2 | *385*	15.9 | *7.2*
	1" | *25*	1/2" | *15*	8.66 | *220*	3.5 | *88.9*	3.7 | *95*	15.2 | *385*	18.1 | *8.2*
	1 1/4" | *32*	1/2" | *15*	10.63 | *270*	4.5 | *114.3*	4.1 | *105*	15.2 | *385*	22.5 | *10.2*
	1 1/2" | *40*	1/2" | *15*	10.63 | *270*	4.5 | *114.3*	4.1 | *105*	15.2 | *385*	39.7 | *18*
	2" | *50*	1/2" | *15*	12.60 | *320*	6.6 | *168.3*	5.1 | *130*	18.9 | *480*	50.7 | *23*
	2 1/2" | *65*	1/2" | *15*	14.17 | *360*	8.6 | *219.1*	5.9 | *150*	20.1 | *510*	66.1 | *30*
	3" | *80*	3/4" | *20*	16.14 | *410*	8.6 | *219.1*	6.7 | *170*	23.2 | *590*	121.3 | *55*
	4" | *100*	3/4" | *20*	17.32 | *440*	10.8 | *273.1*	7.3 | *185*	27.0 | *685*	147.7 | *67*
	5" | *125*	1" | *25*	19.69 | *500*	10.8 | *273.1*	8.3 | *210*	29.9 | *760*	176.4 | *80*
	6" | *150*	1" | *25*	21.65 | *550*	12.7 | *323.8*	8.7 | *220*	35.0 | *890*	209.4 | *95*
	8" | *200*	1" | *25*	27.95 | *710*	16.0 | *406.4*	11.4 | *290*	47.6 | *1210*	264.6 | *120*
	10" | *250*	1" | *25*	32.68 | *830*	20.0 | *508.0*	13.4 | *340*	54.7 | *1390*	401.2 | *182*
	12" | *300*	1 1/2" | *40*	35.83 | *910*	21.7 | *550.0*	15.0 | *380*	59.8 | *1520*	485.0 | *220*
Threaded	1/2"–12" | *15–300*	1/2"–1 1/2" | *15–40*	on request				
Butt Weld	1/2"–12" | *15–300*	1/2"–1 1/2" | *15–40*	on request				

Product also available in DIN connections.

Operating Conditions

Model	Material	Nominal Pressure	Limiting Conditions: Maximum Operating Pressure	Test Pressure	Maximum Operating Temperature
Steam Separator	Carbon Steel	ANSI 150	175 psi | *12.3 bar*	300 psi | *21 bar*	400°F | *204°C*
		ANSI 300	300 psi | *21.1 bar*	520 psi | *36 bar*	570°F | *300°C*