

SEPARATOR SPR 25

FEATURES

The separator SPR 25 is a piping component used for the removal of water, oil and dusts particles on the steam or compressed air networks of small diameters. It allows to obtain a clean and dry gas and it protects the sensitive devices installed downstream : pressure regulators, control valves, flowmeters,... In the case of the steam, it improves the efficiency on the thermal exchange. The stainless steel type is particularly adapted to the clean steam and clean compressed air networks.

This separator is sized according to the code of calculation AD Merkblatt 2000 and according to pressure equipment directive 97/23.



AVAILABLE MODELS

Materials : carbon steel or stainless steel

Diameters : 1/2" to 1"

Connecting : BSP thread

LIMITS OF USE

Max allowed fluid pressure : PS	20 bar
Max allowed fluid temperature : TS	250°C



REGULATIONS AND STANDARD OF CONSTRUCTION

Item	Standard	Item	Standard
Pressure equipment directive 2014/68	G1/2" : A4§3 excluded	Material certificate	EN 10204
	G3/4" - G1" : Catégory I		
Sizing	AD Merkblatt 2000	Stainless steel materials	EN 10217-7
BSP thread	ISO 228	Carbon steel materials	EN 10216-2

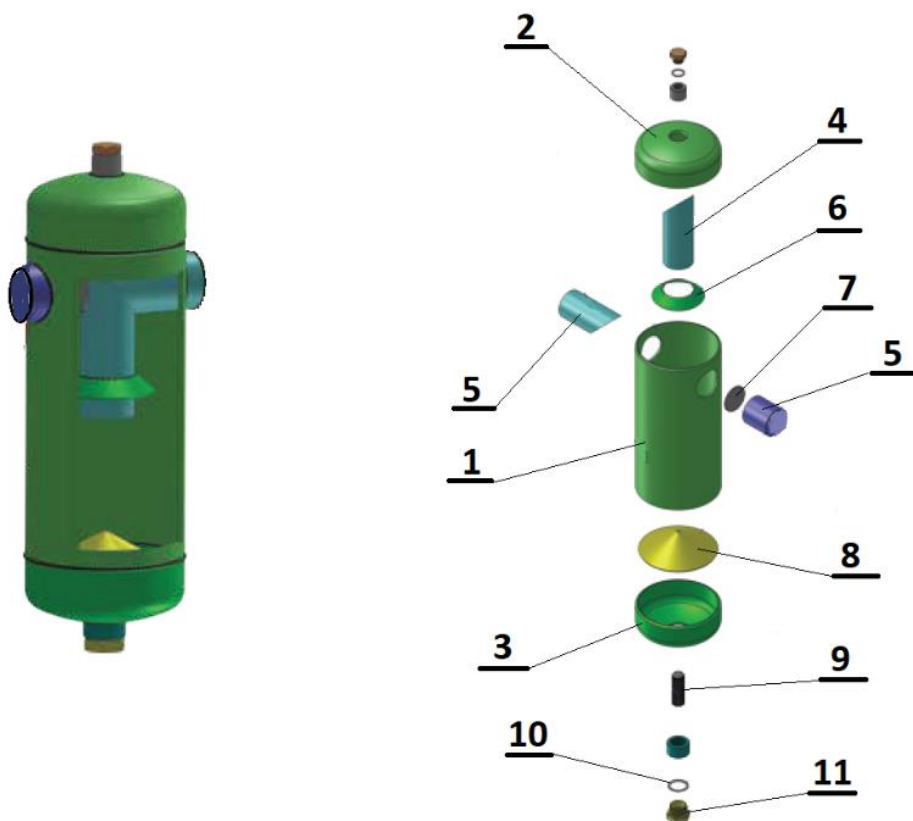
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CONSTRUCTION

n°	Item	Steel material SPR	Stainless steel material SPR
1	Body	Carbon steel	Stainless steel AISI 304L / 1.4307
2	Cover	Carbon steel	Stainless steel AISI 304L / 1.4307
3	Cylinder bottom	Carbon steel	Stainless steel AISI 304L / 1.4307
4	Pipe	Carbon steel	Stainless steel AISI 304L / 1.4307
5	Pipes input / output	Carbon steel	Stainless steel AISI 304L / 1.4307
6	Particle trap	Carbon steel	Stainless steel AISI 304L / 1.4307
7	Metal cover	Carbon steel	Stainless steel AISI 304L / 1.4307
8	Separation plate	Carbon steel	Stainless steel AISI 304L / 1.4307
9	Protection strainer	Stainless steel AISI 304	Stainless steel AISI 304
10	Gasket	Brass	Brass
11	Plug	Carbon steel C22.8	Stainless steel 1.4408



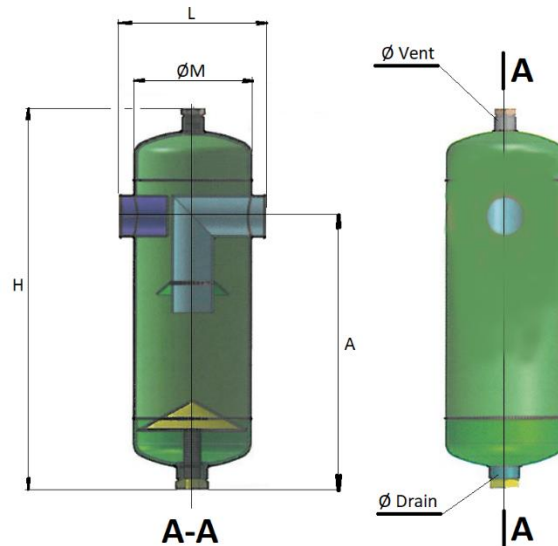
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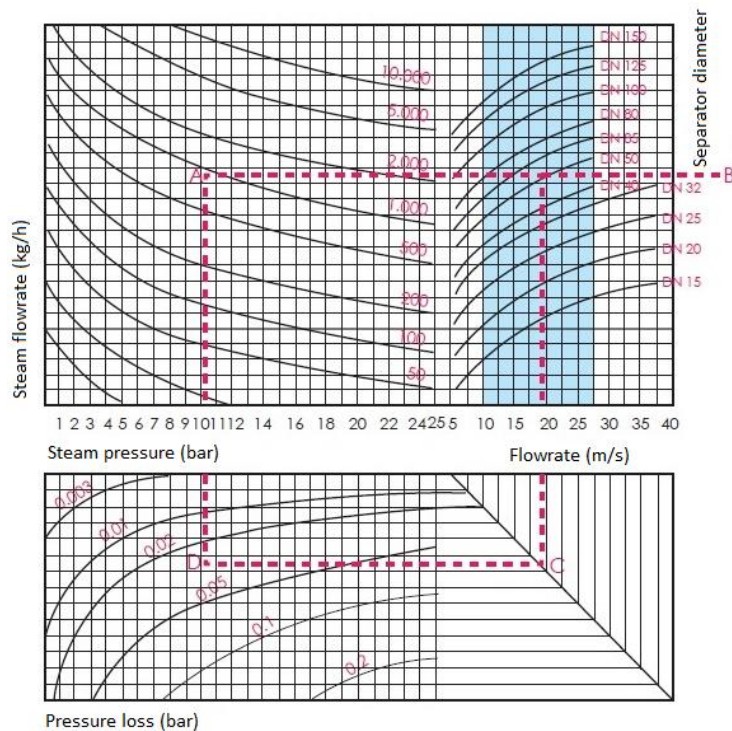
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DIMENSIONS (mm) CONNECTIONS AND WEIGHT (kg)

DN	Volume (l)	A	H	L	Ø M	Ø Drain	Ø Vent	Weight (kg)
G 1/2"	1,5	250,5	356	127	88.9	G 1/2"	G 1/2"	2.15
G 3/4"	2,9	299	411	146	114.3	G 1/2"	G 1/2"	4
G 1"	3,1	315	427	158	114.3	G 1/2"	G 1/2"	4.4



FLOWRATE AND DIAGRAMM OF PRESSURE LOSS FOR STEAM



Leave the upper left diagram by locating the point A from the steam flowrate in of the service pressure. Deduct the point from it B on the upper right diagram the diameter of the separator with regard to the chosen speed. Continue on the diagram of bottom the point C and find the point D which indicates the pressure loss of load through the separator.

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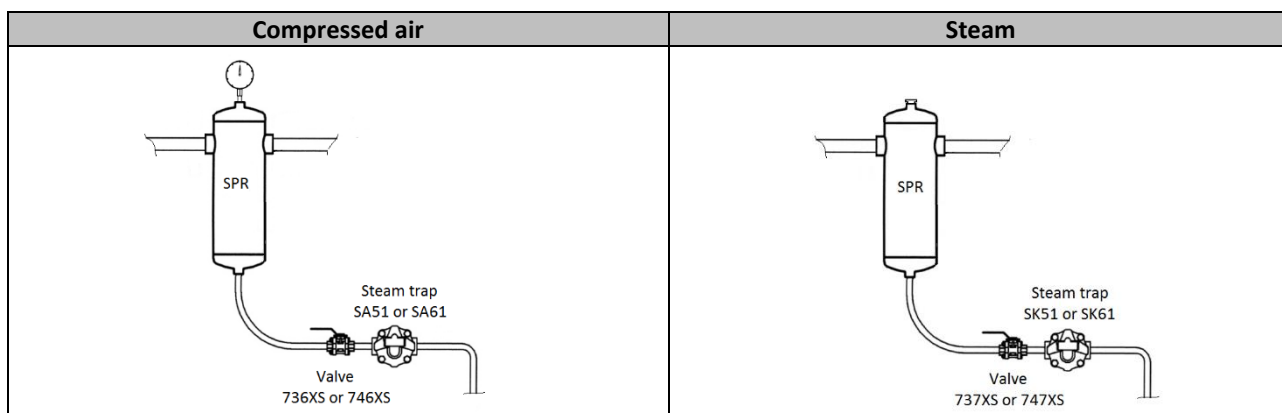
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INSTALLATION

The low point must be equipped with a trap (Steam or compressed air).

The high point can be equipped with various accessories (Air eliminator, vacuum breaker, pressure gauge)

It is necessary to plan a support adapted to the weight of the separator.



MAINTENANCE

SPR 25 requires no maintenance.

Pressure tank subject to periodic inspection following the decree of 20 November 2017.

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