SDS A-DC-L

TLV. CYCLONE SEPARATOR MODEL DC-L/DC-LS/DC-LUS

DURABLE TWO-STAGE CYCLONE SEPARATOR FOR STEAM, AIR AND GASES

Benefits

Two stage separator efficiently disentrains moisture from steam, air and inert gases to ensure high quality production.

- 1. Two stage separator designed to eliminate entrained condensate and solids 10 μm or larger when operating between 50% and 100% of the design flow rate.
- 2. Pressure loss of less than 1 psi when properly used.
- 3. No moving parts and self-cleaning design ensure long life.
- 4. Stamped to ASME code for unfired pressure vessels (ASME Code Section VIII, Div.1).
- 5. All welded, maintenance-free construction.
- 6. Up-flow, down-flow and horizontal-flow configurations available to meet special installation requirements at low cost.



Specifications

Model	DC	C-L	DC-LS	DC-LUS			
Connection		Flanged	Flanged	Flanged	Flanged		
Size (in)		6, 8, 10, 12	6, 8, 10, 12	6, 8, 10, 12, 14, 16, 18, 20	6, 8, 10, 12, 14, 16, 18, 20		
Pressure Rating		Class 150	Class 300	Class 600	Class 600		
Maximum Operating Pressure (psig)	PMO	150	300	550	550		
Maximum Operating Temperature (°F)	TMO	500	500	650	650		
Maximum Allowable Pressure (psig)	PMA	150	300	550	550		
Maximum Allowable Temperature (°F)	TMA	500	500	650	650		
Flow Configuration *	Horizontal / Vertical Down-Flow			Vertical Up-Flow			
Applicable Fluids **		Steam, Air, Inert Gas					

* Flow configuration diagrams shown on reverse

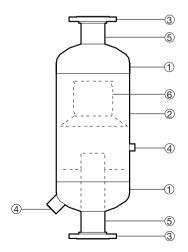
** Do not use for toxic, flammable, or otherwise hazardous fluids.

Connections and sizes in bold are standard

CAUTION To avoid abnormal operation, accidents or serious injury, DO NOT use this product outside of the specification range. Local regulations may restrict the use of this product to below the conditions quoted.

No.	Description	Material*	ASTM/AISI			
1	Heads	Carbon Steel	SA516-70			
2	Shell	Carbon Steel	SA106-B/C / SA516-70			
3	Flanges	Carbon Steel	SA105			
4	Fittings	Carbon Steel	SA105			
(5)	Pipe	Carbon Steel	SA106-B/C			
6	Element	Stainless Steel	SA285			

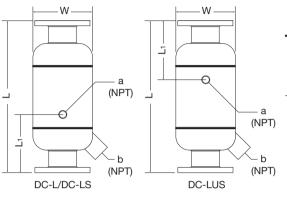
* Materials and configuration shown for DC-L only. DC-LS and DC-LUS may use different materials/configuration. Contact TLV for details.



TLV

Dimensions

DC-L/DC-LS/DC-LUS Flanged



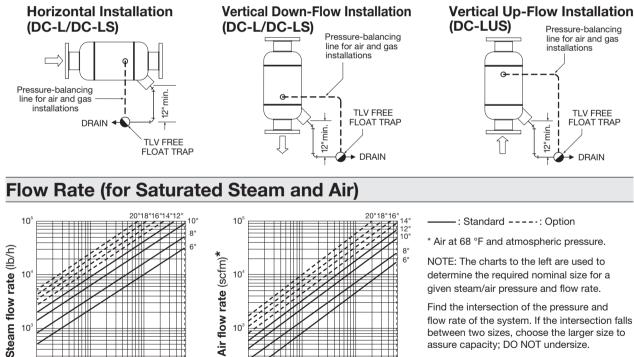
	DC-L/	DC-	LS/C	C-L	US FI	anged				(in)	
	Model	Size		L ts to ASN 300RF	/E Class 600RF	L1*	φW	а	b	Weight** (lb)	
		6	34	34	—	12	14	1/2	2	175(234)	
		8	44	44	-	16	16	3/4	2	272(412)	
	DC-L	10	52	52	-	19 ½	20	3⁄4	2 ¹ / ₂	462(724)	
		12	66	66	-	23	24	3/4	2 ¹ / ₂	776(848)	
— a (NPT)	DC-LS DC-LUS	6	-	-	38	13 (12)	14	1/2	2	336	
		8	-	-	46	17 (13)	16	3/4	2	650	
()		10	-	-	54	201/2 (15)	20	3/4	2 ¹ / ₂	935	
) b (NPT)		12	-	-	68	24 (19)	24	3/4	21/2	1748	
		14	-	-	74	25 (21)	24	3/4	21/2	2118	
		16	-	-	78	31 (23)	30	3/4	21/2	2575	
		18	-	-	90	35 (26)	30	3/4	3	3340	
		20	-	-	96	37 (30)	36	3/4	3	4930	
	* DC-LUS L1 figures are in () Flange clas							sses in bold are standard			

DC-LUS L1 figures are in ()

** 300RF weight is in ()

Flange classes in bold are sta





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Air

Find the intersection of the pressure and flow rate of the system. If the intersection falls between two sizes, choose the larger size to assure capacity; DO NOT undersize.

The pressure is listed as absolute pressure, not gauge pressure. Contact TLV for sizing information for gas use.

DO NOT DISASSEMBLE OR REMOVE THIS PRODUCT WHILE IT IS UNDER PRESSURE. Allow internal pressure of this product to equal atmospheric pressure and its surface to cool to room temperature before disassembling or removing. Failure to do so could cause burns or other injury. READ INSTRUCTION MANUAL CAREFULLY.

Air Pressure (psia)

100

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TLV: CORPORATION

Steam Pressure (psia)

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CAUTION

13901 South Lakes Drive, Charlotte, NC 28273-6790 Tel: 704-597-9070 Fax: 704-583-1610 E-mail: tlv@tlvengineering.com https://www.tlv.com For Technical Service 1-800 "TLV TRAP"

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Member of FC/ Fluid Controls Instit

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