

CYCLONE SEPARATOR CKL-B

DESCRIPTION

CKL-B cyclone separators have been specifically developed for high efficient removal of bulk liquids from compressed air⁽¹⁾ and vacuum systems. Inside the housing there is an insert with vanes that creates controlled rotation of the air. As a result of centrifugal action liquids (water, oil) and large particles are forced to the housing wall, slowed down and accumulated at the bottom of separator housing as condensate. The turbulent free zone in the lower part of the filter housing prevents condensate from being picked up and “carried over” into the airstream.

To discharge condensate from the CKL-B cyclone separator it is essential to install automatic or electronic condensate drain.

APPLICATIONS⁽²⁾

- Automotive
- Electronics
- Food & Beverage
- Chemical
- Petrochemical
- Plastics
- Paint
- General industrial application

⁽¹⁾For any other technical gas please contact us or your local dealer

⁽²⁾CKL-B cyclone separator can be used in variety of applications. For applications not listed please contact us or your local dealer.



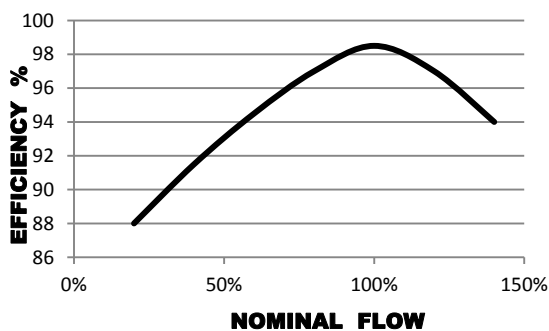
CKL-B CYCLONE SEPARATOR RATING ACCORDING TO ISO8573-1

Solid particles	Water	Oil
-	Class 8	-

TECHNICAL SPECIFICATION

Operating temperature	1,5 - 65 °C	35 - 149 °F
Operating pressure	0 - 16 bar(g)	0 - 232 psi
Efficiency ⁽⁴⁾	>98%	

⁽⁴⁾Under nominal flow, 20°C, inlet droplet size 10µm - 50µm



MATERIALS

Housing material	Aluminium
Fittings, Screws	Brass, Brass-zinc plated, Steel
Cover	ABS
Sealing	NBR
Cyclone element	PA6 30% glass fibre, Steel 1,4301
Corrosion protection	Anodized (optional)
Outside protection	Powder paint coated (Epoxy-polyester base)
Lubricant	Shell cassida grease RLS 2

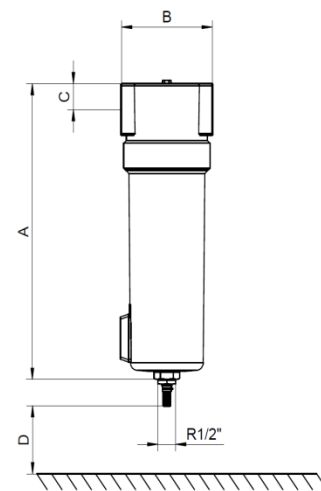
SIZES

HOUSING	PIPE SIZE [inch]	FILTER ELEMENT	FLOW CAPACITY		DIMENSIONS [mm]				VOLUME [l]	WEIGHT [kg]
			[Nm ³ /h]	[scfm]	A	B	C	D		
CKL 0056 B	3/8"	Integrated	120	70	187	88	20	60	0,47	0,7
CKL 0076 B	1/2"		155	91	187	88	20	60	0,47	0,7
CKL 0106 B	3/4"	CKL-B	235	138	257	88	20	80	0,6	0,8
CKL 0186 B	1"		365	215	263	125	32	100	1,57	1,8
CKL 0476 B	1 1/2"	Cyclone element	770	452	461	125	32	140	2,8	2,5
CKL 0946 B	2"		1280	753	684	163	43	520	6,0	5,1
CKL 1506 B	2 1/2"	Cyclone element	2460	1447	684	163	43	520	6,0	5,1
CKL 2006 SS*	3"		2850	1677	795	240	59	630	20	12,9

Flow capacity at 7 bar(g), 20°C
*Stainless steel cyclone element

**PRESSURE EQUIPMENT DIRECTIVE PED 97/23/CE
(Fluid group 2)**

CKL 0056 B - CKL 0476 B	Not required
CKL 0706 B - CKL 1506 B	Category 1, Module A
CKL 2006 SS	Category 2, Module H



CORRECTION FACTORS

To calculate the correct capacity of a given separator based on actual operating conditions, multiply the nominal flow capacity by the appropriate correction factor(s).

CORRECTED CAPACITY = NOMINAL FLOW CAPACITY x C_{OP}


OPERATING PRESSURE

[bar]	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
[psi]	29	44	58	72	87	100	115	130	145	160	174	189	203	218	232
C _{OP}	0,38	0,5	0,63	0,75	0,88	1	1,13	1,25	1,38	1,50	1,63	1,75	1,88	2,00	2,13

MAINTENANCE

Once per year make a visual check of separator housing and make sure there is no visual damage. At least every six months check if condensate drain is operating properly.

INFORMATION IN THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE

	Our quality management system is certified by BUREAU VERITAS in conformity with ISO 9001:2008 Reg. number: 200285
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