

LH45 and LHCP45



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# LH45 and LHCP45

Silencers of type LH45 are especially designed for applications of exhaust systems of 2 and 4 stroke internal combustion engines with extreme critical noise demands, making it the absolute best seller of the standard program.

They are based on a combination of the reflection and absorption principle, providing excellent sound reduction across the entire frequency range. It is also possible to “tune” this silencer, adjusting it accurately to the source. As a single silencer they are being applied to all types of internal combustion engines as used for propulsion, auxiliary power, current generation, etc.

Combined with an absorption silencer of type HXM the acoustic performance of your exhaust system can be increased even more. This silencer is also available as LHCP45. It has an integrated spark arrestor which has been tested according to the NEN-EN 1834-1 directive and has a mutual recognition type approval, which means that this certificate is recognised by most certifying bodies (such as DNV.GL, BV, ABS, RINA, etc.). The installation dimensions are identical to those of the LH45.

Because this silencer has a unique price/performance ratio it is very popular. For this reason we can deliver this silencer mostly from stock.

## ***Mounting***

These silencers may be mounted in any position, considering of course the indicated direction of flow. The spark collector of the LHCP45 must be placed underneath the horizontal axis. By use of our supports and mounting brackets easy fitting of the silencers is possible.

## ***Note!***

Exhaust systems of internal combustion engines are subject to pulsations and other vibration phenomena, therefore it is recommended to always mount the entire exhaust system free from such vibrations by applying suitable vibration isolators. As we are exhaust system specialists, we of course can provide a complete program of vibration absorbers and expert advice by our engineers.

## ***Quality and safety***

Our working method, from design to delivery, takes place according to procedures that meet and are certified in accordance with the ISO 9001 standard. CE markings are not required for silencers as they are a component intended for installation. However in the description of your final product you will have to indicate any potential dangers, for example risk of burns. Therefore we have put a label on your silencer in advance.

## ***Note!***

Silencers of type LHCP45 are supplied with a spark arrestor. For proper operation, regular cleaning is necessary.



### **Technical specifications**

Attenuation	40 - 45 dB
Recommended designed gas flow	min. 20 and max. 50 m/s
Pressure drop silencer	see CW-values in the following chart
Maximum allowable gas temperature	600°C: applies to S 235 JR G2. For other temperatures / materials please ask for our advice.
Material	S 235 JR G2; Stainless-steel, Corten or others are optional Preservation anticorrosive heat-resistant coating (anthracite).
Insulation	as the body virtually will take the temperature of the medium, in many cases lagging will be necessary. Additional insulation may be needed when noise breakout of the body is a decisive factor for achieving the noise demand.
Flanges	drilled according to according to EN1092-1 type 01 table 11 (DIN 2573 PN6). Other flange models on request
Identification	plate with silencer type and order number
Maintenance	regular cleaning of spark arrestor
Options	single or double inlet, radial in- and/or outlet positions, mounting supports, condensation drain, QAQC planning and/or certificates, integrated catalytic converter

### **Dimensions**

NB (nominal bore)	A (mm) outer pipe diameter	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	weight (kg)	CW	
40	1½"	48,3	256	1000	850	50	50	20	6,25
50	2"	60,3	306	1000	850	50	50	27	5,57
65	2½"	76,2	356	1500	1270	75	75	43	5,81
80	3"	88,9	401	1500	1275	75	75	53	5,25
100	4"	114,3	482	1750	1506	100	150	120	6,01
125	5"	139,7	482	1750	1506	100	150	130	6,03
150	6"	168,3	558	2500	2256	100	200	205	5,40
200	8"	219,1	658	2500	2256	150	200	260	5,76
250	10"	273,0	858	3000	2760	150	250	485	6,17
300	12"	323,9	908	3250	3010	150	250	560	5,25
350	14"	355,6	960	3750	3510	150	250	690	5,98
400	16"	406,4	1060	4250	4010	150	270	1075	5,01
450	18"	457,2	1210	4750	4512	150	300	1400	6,17
500	20"	508,0	1310	5250	5012	150	325	1735	5,37

For standard dimensions see above chart; larger or other dimensions available on request

