

Silencers of type HXM/HXMC are especially designed for applications with extreme critical noise demands, specifically in the middle and high frequency ranges. The HXMC is specifically designed for applications involving explosion risks. These silencers can be used for 2 and 4 stroke internal combustion engines. The HXM is also used as inlet silencer. They are based on the absorption principle.

The HXMC has an integrated spark arrestor based on the centrifugal principle. The spark arrestors are tested according to PTB directives and are certified by DNV, GL and others. These silencers are frequently used as single silencers on exhaust systems of 4 or more cylinder engines or combined with the L45 type reflection silencer when high noise reduction across the entire frequency range is required. Many of these silencers or combinations of silencers are used in propulsion, bow screw installations, (emergency) diesel generating sets aboard tankers or other equipment used in areas with explosion risk. They are usually available from stock.

Mounting

These silencers may be mounted in any position, considering of course the indicated direction of flow. The spark collector of the HXMC 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 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 manufacturing process from design to delivery is in conformity with the ISO 9001:2000 standard, for which we have been certified. Our silencers are built-in components, therefore no CE marking applies. 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 HXMC are supplied with a spark arrestor. For proper operation, regular cleaning is necessary.



Technical specifications

Attenuation	15-25 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 (gray): for other paint systems please ask for our advice.
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 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

ND (nominal bore)	A (mm) outer pipe diameter	B (mm)	C (mm)		D (mm)		E (mm)	F (mm)	weight (kg)		CW		
			HXM	HXMC	HXM	HXMC			HXM	HXMC	HXM	HXMC	
50	2"	60,3	206	1000	1250	765	1015	50	50	14	18	0,70	5,42
65	2½"	76,2	256	1250	1500	1020	1270	75	75	24	29	0,71	5,04
80	3"	88,9	306	1500	1750	1270	1520	75	75	36	42	0,73	4,79
100	4"	114,3	356	1500	1750	1270	1520	100	150	45	54	0,57	4,34
125	5"	139,7	356	1750	2000	1520	1770	100	150	59	69	0,55	4,15
150	6"	168,3	401	1750	2000	1525	1775	100	200	70	84	0,45	3,40
200	8"	219,1	556	2250	2500	2006	2256	100	200	141	150	0,45	3,95
250	10"	273,0	608	2500	3000	2256	2756	150	250	208	257	0,40	3,72
300	12"	323,9	708	2750	3250	2506	3006	150	250	275	340	0,37	3,07
350	14"	355,6	800	3250	3750	3006	3506	150	250	379	452	0,40	3,62
400	16"	406,4	908	3750	4250	3506	4006	150	270	551	631	0,41	4,28
450	18"	457,2	1060	4250	4750	4008	4508	150	300	780	890	0,41	4,74
500	20"	508,0	1110	4250	4750	4008	4508	150	325	836	948	0,37	4,05

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

