

**POTVRDA O TIPNOM ODOBRENJU**
TYPE APPROVAL CERTIFICATE**Br /No** **02-002180/024049**

Potvrđuje se da je ovaj proizvod, u skladu s Pravilima za klasifikaciju brodova, Dio 1. - Opći propisi, Odjeljak 3. - Tipno odobrenje proizvoda, odobren za ugradnju na brodove i postrojenja pod nadzorom Hrvatskog registra brodova.

This is to certify that this product, on the basis of the Rules for the classification of ships, Part 1 - General requirements, Chapter 3 - Type approval of products, is approved for use on board ships and installations under supervision of the Croatian Register of Shipping.

TIP I OPIS PROIZVODA:*TYPE AND DESCRIPTION OF PRODUCT:***PS 25-32 do PS 25-1600**
*to***ISPUŠNI LONAC-ISKROHVATAČ**
EXHAUST UPTAKE-SPARK ARRESTER**PROIZVOĐAČ:**
*MANUFACTURER:***“KOMET” d.o.o.**
*Kalmana Mesarića 26***40323 PRELOG • HRVATSKA - CROATIA****PROIZVOD UDOVOLJAVA SLIJEDEĆIM PRAVILIMA/PROPISIMA:***THE PRODUCT MEETS FOLLOWING RULES/REGULATIONS:*

- **Standard 5100-1a, travanj/April 1970 U.S. Department of Agriculture, Forest Service;**
- **SAE J 335b travanj/April 1977;**
- **SAE J 342, studeni/November 1980;**
- **SAE J 350, siječanj/January 1980;**
- **SAE J 997, siječanj/January 1980.**

DETALJI O PROIZVODU I UVJETIMA CERTIFIKACIJE DANI SU NA POLEDINI.*FURTHER DETAILS OF THE PRODUCT AND CONDITIONS FOR CERTIFICATION ARE GIVEN OVERLEAF.***ODOBRENJE VRIJEDI DO:**
*APPROVAL IS VALID UNTIL:***2021-01-24****Mjesto i datum:**
*Place and date:***Split, 2017-01-13****M.P.**
*(Seal)***Marinko Popović, dipl.ing.**

NAPOMENA: Ova potvrda nije valjana ako se proizvod ili način njegove proizvodnje promijenio u odnosu na tipno ispitani proizvod. Proizvođač treba obavijestiti Hrvatski registar brodova o bilo kojoj izmjeni na proizvodu kako bi ishodio valjanu potvrdu.

NOTE: This certificate is not valid for equipment, the design or manufacture of which has been varied or modified from the specimen tested. The manufacturer should notify Croatian Register of Shipping of any modification or changes to the product in order to obtain a valid certificate.

PODROBNJI OPIS PROIZVODA:
DETAILED PRODUCT DESCRIPTION:

Iskrohvatač s prigušivačem zvuka radi na principu centrifugalnog izdvajanja čestica.
Spark arrester with silencer works on principle of centrifugal particle separation.

PODRUČJE PRIMJENE / POSEBNI GRANIČNI UVJETI:
APPLICATION / LIMITATIONS:

- **Ispušni lonac-iskrohvatač namijenjen je za ugradnju na porivne i pomoćne motore s unutrašnjim izgaranjem kao i za kotlove ložene tekućim gorivom.**
The Exhaust Uptake-Spark Arrester has been designed for exhaust gas pipes of propulsion and auxiliary internal combustion engines and for boilers heated with fuel oil.
 - **Pad tlaka ispušnih plinova Δp (Pa) u zavisnosti od brzine na ulazu u ispušni lonac-iskrohvatač w (m/s) i temperature ispušnih plinova T_p (K) iznosi:**
Pressure drop of exhaust gas Δp (Pa) in dependence of the velocity on inlet of the Exhaust Uptake-Spark Arrester w (m/s) and the temperature of the exhaust gas T_p (K) is:
- $$\Delta p = \frac{w^2}{T_p} (0,2276w^2 - 19,42w + 734,8)$$
- **Postotak izdvajanja i zadržavanja čestica ugljika iz ispušnih plinova udovoljava traženju:**
 - **SAE J 342 studeni 1980;**
 - **Standarda 5100-1a, travanj 1970, U.S. Department of Agriculture, Forest Service, te u području optimalne brzine na ulazu u ispušni lonac-iskrohvatač $w= 31$ m/s iznosi $\mu_{iopt}=98,7\%$ s poljem tolerancije +1%, - 2%.**
 - **Ispušni lonac-iskrohvatač može biti ugrađen u horizontalnom položaju, vertikalnom položaju s tokom ispušnih plinova od donjeg kraja prema gore i u svakom položaju između horizontalnog i vertikalnog.**
 - *Carbon particle retention efficiency is in accordance with:*
 - *SAE J 342 November 1980;*
 - *Standard 5100-1a, April 1970, U.S. Department of Agriculture, Forest Service and in the range of optimum velocity on inlet of Exhaust Uptake-Spark Arrester $w= 31$ m/s is $\mu_{iopt}=98,7\%$ with tolerance +1%, - 2%.*
 - *The Exhaust Uptake-Spark Arrester can be installed in exhaust pipe in horizontal position, in vertical position with exhaust gas stream from down side to up side and in all position from horizontal to vertical.*

DOKUMENTACIJA ZA TIPNO ODOBRENJE:
TYPE APPROVAL DOCUMENTATION:

Za For	Sastavnica Part list	Za For	Sastavnica Part list
PS 25-32	11256	PS 25-550	11271
PS 25-40	11257	PS 25-600	11272
PS 25-50	11258	PS 25-650	11273
PS 25-65	11259	PS 25-700	11274
PS 25-80	11260	PS 25-750	11275
PS 25-100	11261	PS 25-800	11276
PS 25-125	11262	PS 25-850	11277
PS 25-150	11263	PS 25-900	11278
PS 25-175	11264	PS 25-950	11279
PS 25-200	11255	PS 25-1000	11280
PS 25-250	11265	PS 25-1100	11281
PS 25-300	11266	PS 25-1200	11282
PS 25-350	11267	PS 25-1300	11283
PS 25-400	11268	PS 25-1400	11284
PS 25-450	11269	PS 25-1500	11285
PS 25-500	11270	PS 25-1600	11286

Nacrt broj 11255
Drawing No 11255

OZNAČAVANJE PROIZVODA:
MARKING OF PRODUCT:

- **oznaka proizvođača** - *manufacturer's mark*
- **tip** - *type*
- **serijski broj** - *serial No.*

UVJETI ZA CERTIFIKACIJU:
CONDITIONS FOR CERTIFICATION:

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