

# TYPE APPROVAL CERTIFICATE

## This is to certify:

**That the Screw Compressor**

with type designation(s)  
**VMY 156M, VMY 256, VMY 356M**

Issued to

**Aerzener Maschinenfabrik GmbH**  
**Aerzen, Niedersachsen, Germany**

is found to comply with  
**DNV GL rules for classification – Ships**  
**DNV GL rules for classification – Ships Pt.4 Ch.6 Piping systems**

## Application :

**Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.**

Issued at **Hamburg** on **2020-11-11**

for **DNV GL**

This Certificate is valid until **2025-11-10**.

DNV GL local station: **Hamburg – CMC North/East**

Approval Engineer: **Frank Poetsch**

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**Olaf Drews**  
**Head of Section**

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV GL AS, its parent companies and subsidiaries as well as their officers, directors and employees ("DNV GL") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Job Id: **262.1-002734-4**  
Certificate No: **TAM0000170**

## Product description

Screw Compressor VMY 156M VMY 256M, VMY 356M

## Application/Limitation

For cooling systems / refrigerating installations.

	VMY 156M	VMY 256M	VMY356M
Volume rate of flow [m <sup>3</sup> /h] @ 3000 min <sup>-1</sup> and @ 25 bar 444 911 1809 - Male rotor-driven	444	911	1809
Volume rate of flow [m <sup>3</sup> /h] @ 3000 min <sup>-1</sup> and @ 25 bar 678 1378 2708 - Female rotor-driven	678	1378	2708
M.A.W.P.: [bar]	25	25	25
Flange, gas inlet DN / PN Flange, gas outlet DN / PN	100 / 40 50 / 40	150 / 40 100 / 40	200 / 40 100 / 40

Further techn. data see manufacturer sheet!

### Materials:

Male rotor drive	(HR)	Casing:	EN-GJS-400-18-LT (GGG40.3)
		Rotors:	C45 N / 1.0505
Female rotor drive	(NR)	Casing:	EN-GJS-400-18-LT (GGG40.3)
		Rotors:	20MnCr5 / 1.7141

\*\*\* Approved for refrigerants: R22, R134a, R404a, R407c, R507, R717 \*\*\*

Compressors are to be subjected to a performance test at the manufacturer's works under supervision of DNV-GL and are to be presented for final inspection.

Where screw compressors are intended for DNV-GL-classed vessels, material tests are to be performed on the rotors.

## Type Approval documentation

Technical Design Description VMY156-M, VMY256-M, VMY356-M  
Manufacturer data sheet V1-030-08-DE-500- 06.2018

## Tests carried out

Type Approval Assessment Report – date of issue 2020-11-10; TAC No: 75 862 – 09 HH (and M-11858)

## Marking of product



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Manufacturer's name or trade-mark and type designation.

END OF CERTIFICATE