



DOCUMENTATION SHEET

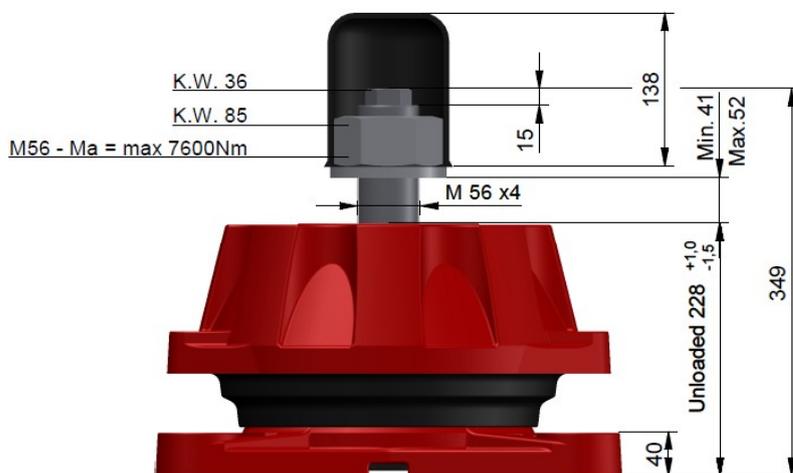
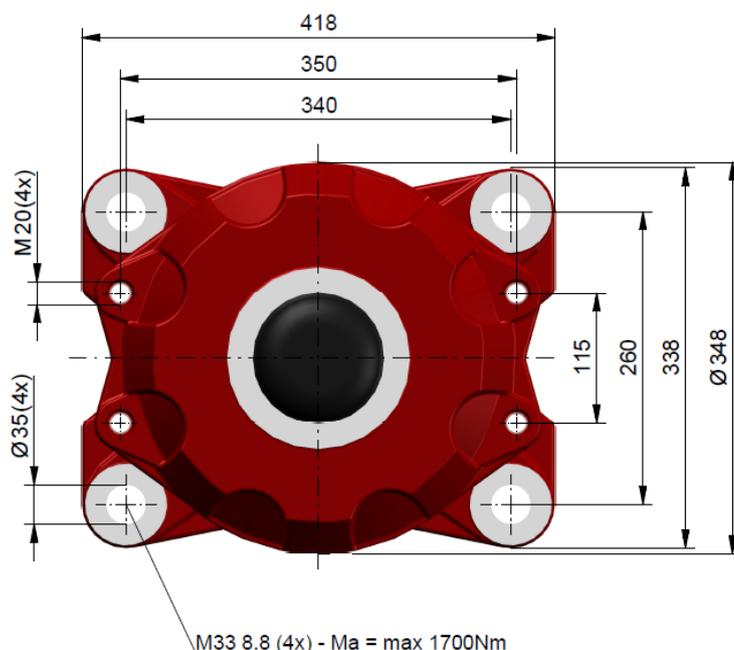
Conical Mountings

Type RD 114X

RD 114X

General

With this new mounting series the nodular cast iron RD 114X, Rubber Design broadens the bandwidth of load-capacity and sets a new standard for the resilient suspensions of large bore medium speed diesel engines. Based on the vast experience with the Rubber Design original conical mountings, this largest type in the X-series range provides the ideal solution for increased demands from customers. With a load capacity higher than any other mounting in the market, combined with the compact and proven design, this mounting enables simpler and more cost effective resilient mounting solutions. Additionally, this mounting is equipped with new, patented technologies, to even further increase it's performance and reliability. Built from the highest quality of materials, the choice for the RD 114X means opting for a fail-safe solution, which will perform satisfactory in the field for many years. This is backed by the approval of our design, engineering and calculation methods by many renown engine manufacturers and classification societies.



DIMENSIONS



RD 114X

Cost reduction

The high load capacity of the mounting (up to 40 tons per mounting!) can provide cost-savings in all commercial marine & power plant installations. Not only the fact that less mountings are necessary is beneficial; a cost reduction is also realized by the reduction of engine brackets and simplification of the foundation and installation procedure!

High isolation performance

Another benefit of the high load capacity is the possibility of high isolation performance in case of critical installations (for example military, cruise & research vessels) due to utilization of a softer grade NR rubber compound with excellent vibration and acoustical isolation characteristics.

Typical applications in Marine and Industrial / Stationary Environments

- Medium-speed Diesel & Gas propulsion engines & generator sets
- Turbine propulsion engines & gensets
- Deckhouses for Seagoing-, Inland vessels and Offshore Equipment
- Boiler & Incinerators in exhaust gas pipelines

Direction	Vertical up	Vertical down	Radial
Displacement limiter clearance [mm]	6	6	4

CLEARANCE

Rubber Hardness [*Sh. A]	45	50	55	60	65
Max Marine load [kN]	186	220	254	280	316
Max Static load [kN]	218	258	296	340	390
Max Static vert. defl. [mm]	15,5	15	14	13,5	12,5

CHARACTERISTICS

Max Shockload	450 kN (all directions)
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SHOCKLOAD

Mounting selection

The characteristics table is ideal for initial selection; however, it is advisable to seek expert advise before finalizing an installation design. Rubber Design is eager to support you by making 6 degrees of freedom calculations as a service, to ensure a proper functioning resilient mounted system.

Engineering

More detailed drawings and installation instructions, as well as specific mounting versions with alternative connection dimensions, tailored to your needs, can be provided upon request

Remarks

It is our intention to maintain the excellent standard of our products. Modifications and improvements may be made from time to time and it is therefore advisable to contact us before ordering.

 BUREAU VERITAS	 DNV	 Lloyd's Register		 ABS		
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TYPE APPROVALS

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