

# MG SERIES

TECHNICAL DATA





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01/2021

The hand symbol appears on pages which differ from the previous catalogue version.

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# MG SERIES

## CHARACTERISTICS

# LOAD RANGE 100 N – 6400 N

The MG resilient mounts have been designed to satisfy the needs of commercial, industrial and pleasure craft applications, where the lightness of the equipment is very important. For this reason, they are manufactured in light alloy in their standard version. The damping element of the MG series resilient mounts is made of natural rubber (NR). This component enables these mounts to work at ambient temperatures in the range of -20 °C/+70 °C. Available in the load range from 100 N to 6400 N. Due to their low natural frequency, these resilient mounts can be used for supporting all kinds of machinery and equipment where a significant reduction of noise and vibration is required.

**MG** mounts are divided into two different categories:

- ⊕ **DNP** (Direct Non-Protected).
- ⊕ **DP** (Direct Protected) with aluminium metal casting.  
Different metal castings are available on demand.

The specific shape of the rubber ensures the constancy of the load-strain ratio, even over 30% of the nominal load. The transversal stiffness, which is about one-half that of the vertical ones, is also constant. Together with the high natural rubber quality, these characteristics equip the mounts with a high capacity to reduce vibrations of widespread applications. In case the mount potentially comes in contact with external corrosive agents, it can be supplied with a protective metallic casing (DP version). This version is also equipped with a rubber stop to prevent metal to metal contact.

## AREAS OF APPLICATION

Marine genset, compressor units, pumps, ventilator units, electronic devices, little and medium dimension machinery.

## PRODUCT BENEFITS

- ⊕ Low natural frequency.
- ⊕ Can be used on applications with large dynamic loads.
- ⊕ Highly flexible in vertical and radial directions.

## CERTIFICATIONS

Bureau Veritas.

## PERFORMANCE DATA

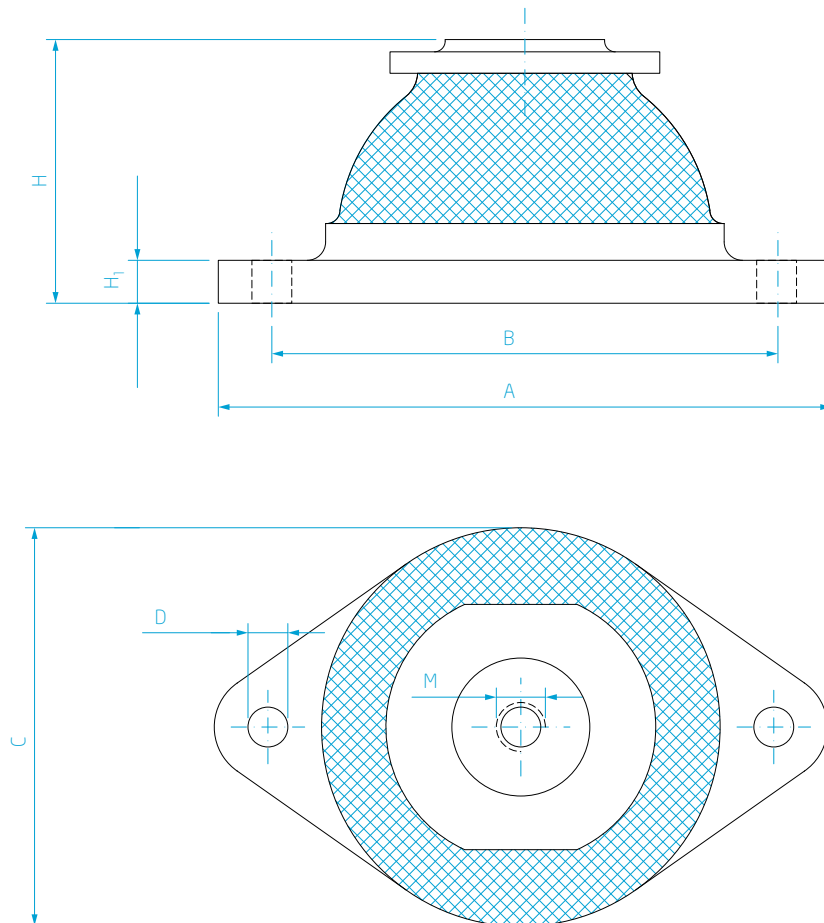
MG-DNP		F <sub>Z</sub> Nominal	C <sub>Z</sub> Nominal
		[N]	[N/mm]
Dimensional group	Element stiffness	Vertical nominal load	Vertical static stiffness
MG-DNP-10	20	100	280
MG-DNP-20	21	200	450
MG-DNP-30	22	300	660
MG-DNP-40	23	400	880
MG-DNP-60	20	600	1.000
MG-DNP-90	22	900	1.500
MG-DNP-120	23	1.200	2.000
MG-DNP-150	24	1.500	2.500
MG-DNP-180	20	1.800	1.820
MG-DNP-270	22	2.700	2.730
MG-DNP-360	23	3.600	3.640
MG-DNP-500	24	5.000	4.720
MG-DNP-640	26	6.400	5.090

MG-DP		F <sub>Z</sub> Nominal	C <sub>Z</sub> Nominal
		[N]	[N/mm]
Dimensional group	Element stiffness	Vertical nominal load	Vertical static stiffness
MG-DP-60	20	600	1.000
MG-DP-90	22	900	1.500
MG-DP-120	23	1.200	2.000
MG-DP-150	24	1.500	2.500
MG-DP-180	20	1.800	1.820
MG-DP-270	22	2.700	2.730
MG-DP-360	23	3.600	3.640
MG-DP-500	24	5.000	4.720
MG-DP-640	26	6.400	5.090

Different metal castings are available on demand.

# MG-DNP SERIES

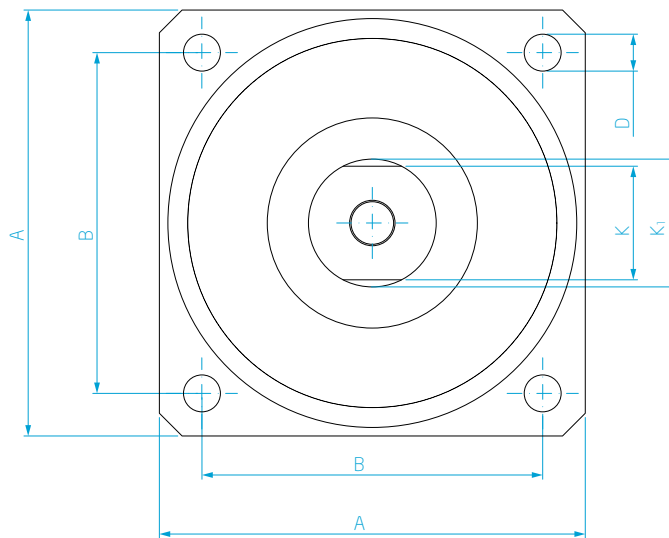
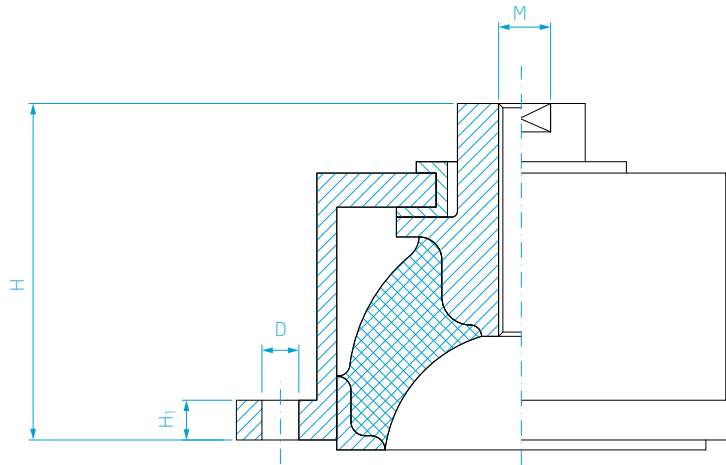
## GEOMETRIC DATA



Dimension group	Dimension							Mass
	A	B	C	D	H	H <sub>1</sub>	M	m
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kg]
MG-DNP 10/20/30/40	75	62	47	Ø7	31	5	M8	0,05
MG-DNP 60/90/120/150	120	100	75	Ø9	49	8	M12	0,20
MG-DNP 180/270/360/500/640	200	165	130	Ø13	86	14	M16	1,00

# MG-DP SERIES

## GEOMETRIC DATA

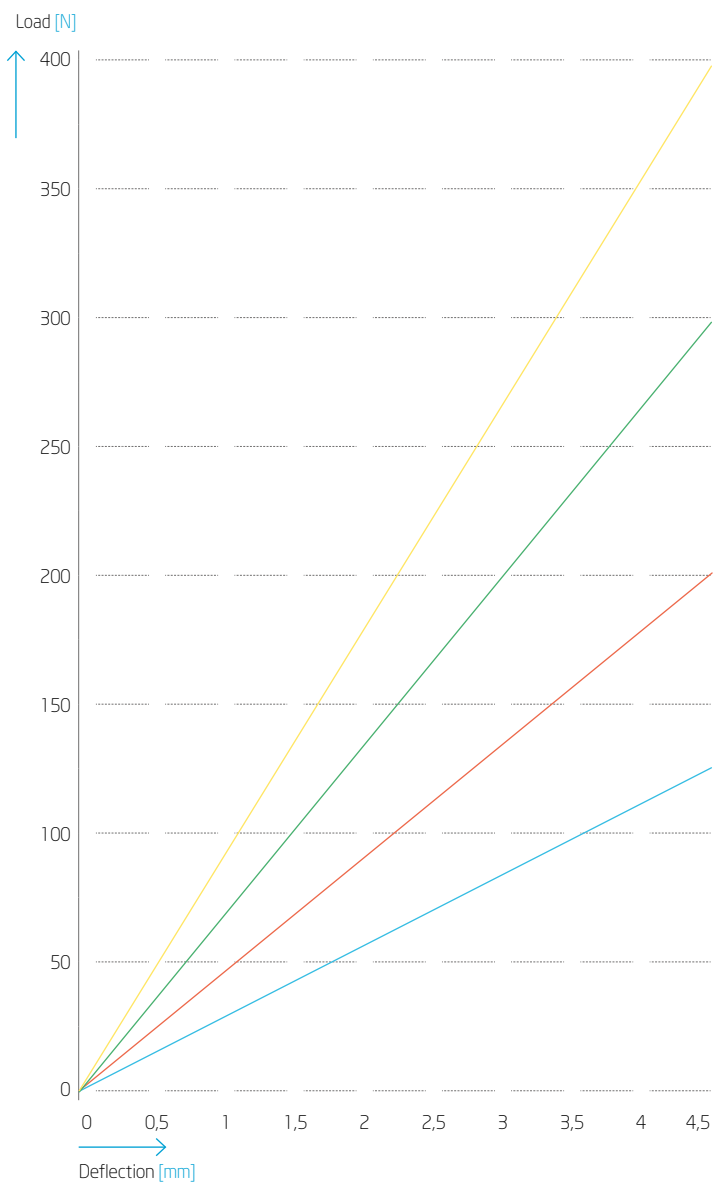


Dimension group	Dimension								Mass
	A	B	K	K <sub>1</sub>	D	H	H <sub>1</sub>	M	w
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kg]
MG-DP 60/90/120/150	100	80	22	25	Ø11	74	8	M12	0,80
MG-DP 180/270/360/500/640	150	120	40	45	Ø13	118	14	M16	2,50

# MG SERIES

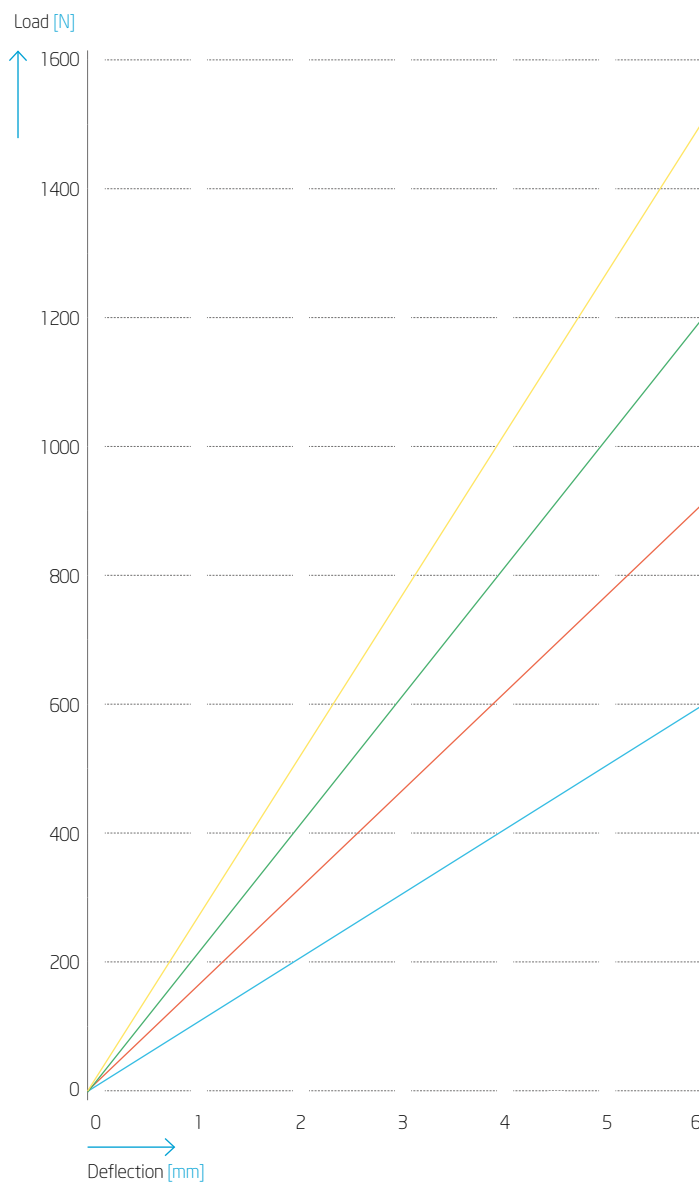
## LOAD-DEFLECTION CHART

### MG 10/20/30/40



Element stiffness: **20** **21** **22** **23**

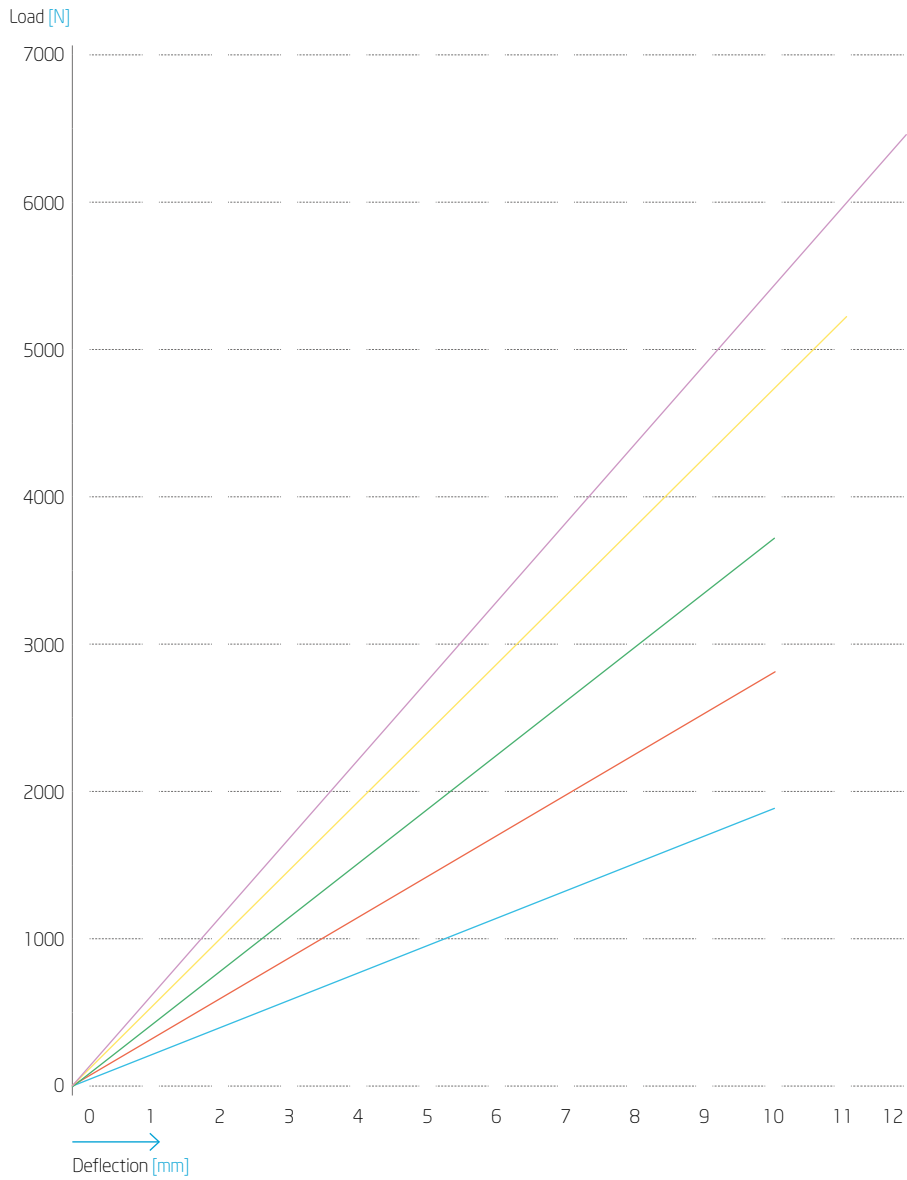
### MG 60/90/120/150



Element stiffness: **20** **22** **23** **24**



# MG 180/270/360/500/640



Element stiffness: **20** **22** **23** **24** **26**

# ONLINE-SERVICE

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FOR FURTHER INFORMATION, PLEASE REFER TO OUR WEBSITE [WWW.VULKAN.COM](http://WWW.VULKAN.COM)



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# VALIDITY CLAUSE

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## VALIDITY CLAUSE

The containing technical data is valid only for defined areas of applications. These includes:

- ⊕ Main propulsion and auxiliary drives on ships
- ⊕ Generator sets on ships
- ⊕ Drives for stationary energy production with diesel or gas engines

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The data contained in this catalogue refer to the technical standard as presently used by VULKAN with defined conditions according to the explanations. It shall be the sole responsibility and decision of the system administrator for the drive line to draw conclusions about the system behaviour.

VULKAN torsional vibration analysis usually only consider the pure mechanical mass-elastic system. Being a component manufacturer exclusively, VULKAN assumes no system responsibility with the analysis of the torsional vibration system (stationary, transiently)! The accuracy of the analysis depends on the exactness of the used data and the data VULKAN is provided with, respectively.

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