



Task – T1766535
Product Design Assessment (PDA)
Resilient mounting BRB, BSB, Marine
PDA No. 18-GE1766535-PDA

Attention: Mr. Igor Martin, AMC MECANOCAUCHO (443067)

The documents shown in the attached list are reviewed in accordance with the applicable requirements indicated in the PDA along with the service restrictions and comments.

We recommend that you monitor the ABS Rules, Guides and other standards used in the Assessment. These Rules, Guides and standards often change on an annual basis, and you must comply with the new Rules, Guides and standards in order for the product to be used on an ABS classed vessel or facility contracted under the new Rules, Guides or specifications.

For any clarifications, contact Ms. Dimitri Picchi at +39 010 2549265, (dpicchi@eagle.org).

Very truly yours,
Stefano Penco
Vice President of Engineering

Electronically Signed by: L. Trevisan

Documents List

Drawing No.	Rev. No.	TITLE	Status
BRB-BSB - 4 holes	0	BRB-BSB - 4 holes	Reviewed
BRB-BSB - 2 holes	0	BRB-BSB - 2 holes	Reviewed
Adhesion Test Zn Ni	0	Adhesion Test Zn Ni	Reviewed
BRB_BSB_Marine_Mounts	0	TABLE	Reviewed
BSB_ds	0	DATA SHEET	Reviewed
Marine mounts_ds	0	DATA SHEET	Reviewed
BRB_ds	0	DATA SHEET	Reviewed
Marine Mounts - Radial and Axial Load-Deflection curves	0	Radial and Axial Load-Deflection curves	Reviewed
Marine XL mounts	0	Marine XL mounts	Reviewed
Marine mounts	0	Marine mounts	Reviewed
Flow Chart	0	Flow Chart	Filed by ABS for Reference Only
ISO_9001_es	0	ISO_9001_es	Filed by ABS for Reference Only
QUOTATION-	0	QUOTATION	Filed by ABS for Reference Only
TypeApproval Request Rev1	-	TypeApproval Req. Rev1	Filed by ABS for Reference Only
Correspondence	0	incoming 13 jul 18	Filed by ABS for Reference Only
Zinc-Nickel Coating	0	Zinc-Nickel Coating	Filed by ABS for Reference Only

Electronic copies of the documents appropriately stamped are available through the ABS Eagle Construct Engineering Manager (O2E), Web portal.

Include: PDA Certificate

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Tier: 2 - PDA Issued

Product: Vibration Control, Resilient Mounting

Model: BRB Mounts, BSB Mounts, Marine Mounts

Intended Service:

Flexible mounts for propulsion or auxiliary machinery, including diesel engines.

Description:

Anti-vibration elements: natural rubber molded between two metal hoods, available in different dimensions and rubber hardness (refer to attachment for list). Rubber is working in compression and shear.

Mounts are provided with a mechanical device limiting the vertical deflection when the mounting is submitted to excessive traction.

Rating:

Refer to the attachment for list of models and relevant rating/stiffness.

Operating temperature max 80°C.

Service Restriction:

Unit Certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

Comments:

- The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.
- Piping connections to machinery installed on resilient mountings are to take into account the maximum movements allowed by the mountings.
- Cables connected to equipment provided with resilient mounts are to be of sufficient length, and installed with appropriate slack between the equipment and the last point of support of the cable, to provide for flexibility and movement of the equipment under shock, vibration, and in-service loading.
- Alignment sensitive equipment, such as propulsion engines and gears, resting on resilient mounting are to be installed with elastic coupling on shafts. The Manufacturer shall ensure that the alignment is within the permissible value for the shaft couplings under all relevant driving conditions. Natural frequencies of the resilient mounted equipment are not to be close to excitation frequency.

Notes/Drawing/Documentation:

Document No. BRB_BSB_Marine_Mounts, TABLE, Revision: 0, Pages: 1

Document Adhesion Test Zn Ni, Adhesion Test Zn Ni, Revision: 0, Pages: 1

Drawing No. BRB-BSB - 2 holes, BRB-BSB - 2 holes, Revision: 0, Pages: 1

Drawing No. BRB-BSB - 4 holes, BRB-BSB - 4 holes, Revision: 0, Pages: 1

Drawing No. Marine XL mounts, Marine XL mounts, Revision: 0, Pages: 1

Drawing No. Marine mounts, Marine mounts, Revision: 0, Pages: 1

Datasheet Marine mounts_ds, Revision: 0, Pages: 1

Datasheet BRB_ds, DATA SHEET, Revision: 0, Pages: 1

Datasheet BSB_ds, DATA SHEET, Revision: 0, Pages: 1

Document Marine Mounts - Radial and Axial Load-Deflection curves, Radial and Axial Load-Deflection curves, revision: 0, Pages: 1

TypeApproval Request Revised, Pages: 1

Document Zinc-Nickel Coating, Revision: 0, Pages: 1

Terms of Validity:

This Product Design Assessment (PDA) Certificate 18-GE1766535-PDA, dated 18/Sep/2018 remains valid until 17/Sep/2023 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

This PDA is intended for a product to be installed on an ABS classed vessel, MODU or facility which is in existence

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or under contract for construction on the date of the ABS Rules or specifications used to evaluate the Product.

Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA.

Use of the Product for non ABS classed vessels, MODUs or facilities is to be to an agreement between the manufacturer and intended client.

STANDARDS

ABS Rules:

The Rules for Conditions of Classification, Part 1 2018 - Steel Vessels Rules 1-1-4/7.7, 1-1-A3, 1-1-A4,
The Rules for Conditions of Classification, Part 1 2018 - Offshore Units and Structures 1-1-4/9.7, 1-1-A2, 1-1-A3,
ABS Rules for Building and Classing Steel Vessels 2018, 4-2-1/11.7

National:

NA

International:

NA

Government:

NA

EUMED:

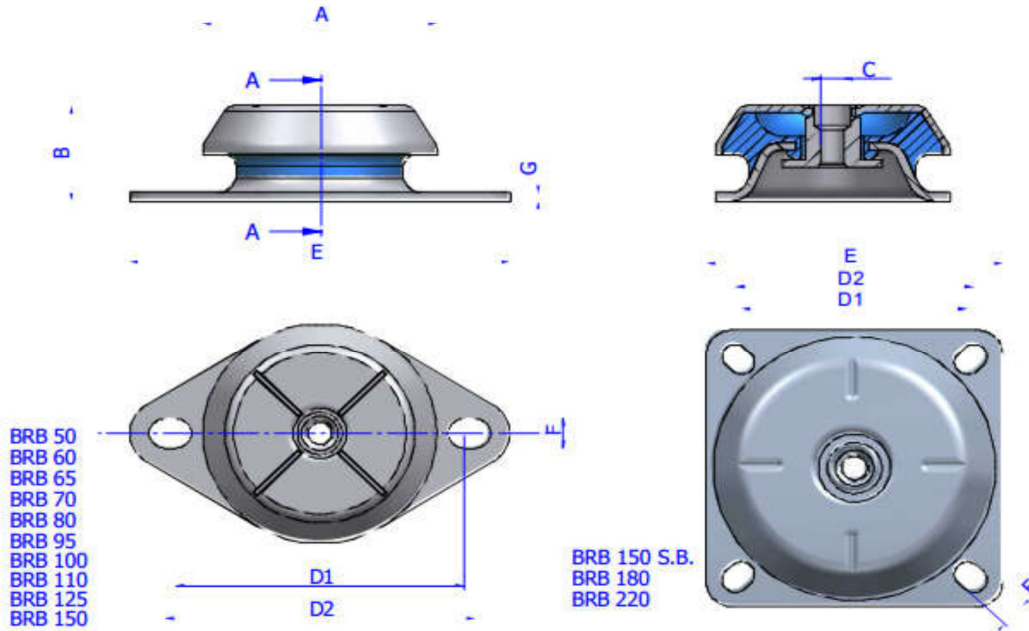
NA

OTHERS:

NA

BRB Mounts

DRAWINGS

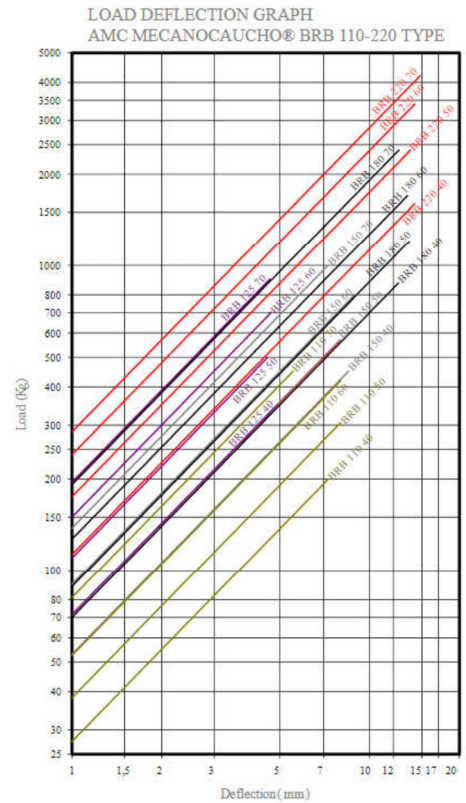
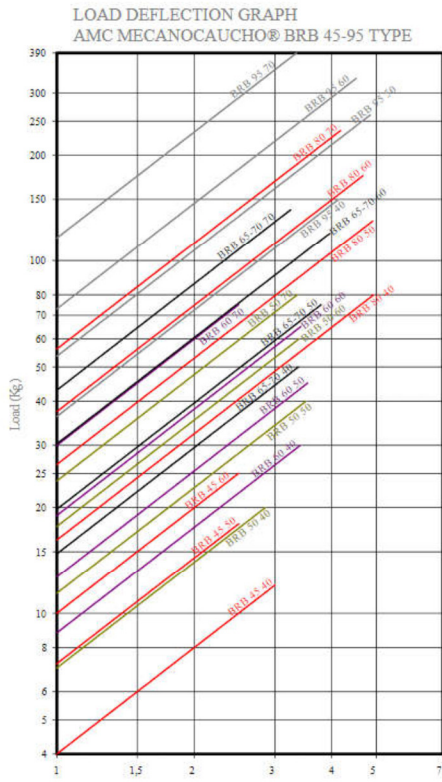


DIMENSIONS

Type	A (mm)	B (mm)	C (mm)	D1 (Min.)	D2 (Max.)	E (mm)	F (mm)	G (mm)	Weight (gr)	Code	Load (kg)	Shore
BRB 45	50	32	M-8	61	70	85	6,5	2	131	135137	12	40 Sh
										135138	18	50 Sh
										135139	25	60 Sh
BRB 50	50	25	M-8	61	70	85	6,5	2	117	135451	20	40 Sh
										135453	40	50 Sh
										135455	60	60 Sh
										135457	80	70 Sh
BRB 60	64	35	M-10	76,5	90,5	110	9	2,5	225	135101	30	40 Sh
										135405	45	50 Sh
										135103	65	60 Sh
										135104	75	70 Sh
BRB 65 M10	64	35	M-10	76,5	90,5	110	9	2,5	243	135421	50	40 Sh
										135422	75	50 Sh
										135423	120	60 Sh
										135424	140	70 Sh

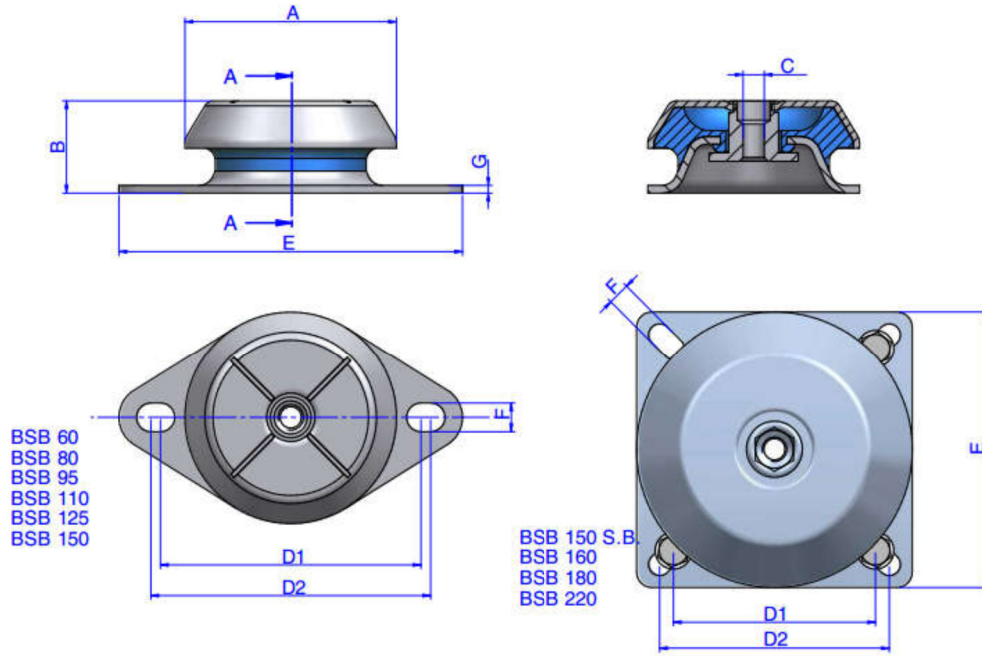
BRB 65 M12	64	35	M-12	76,5	90,5	110	9	2,5	243	135431	50	40 Sh
										135432	75	50 Sh
										135433	120	60 Sh
										135434	140	70 Sh
BRB 70	64	35	M-12	100	100	120	11	3	253	135251	50	40 Sh
										135252	75	50 Sh
										135253	120	60 Sh
										135254	140	70 Sh
BRB 80 M10	83	35	M-10	108	112	135	11	3	398	135231	80	40 Sh
										135232	130	50 Sh
										135233	175	60 Sh
										135234	235	70 Sh
BRB 80 M12	83	35	M-12	108	112	135	11	3	398	135275	80	40 Sh
										135276	130	50 Sh
										135277	175	60 Sh
										135278	235	70 Sh
BRB 95 M10	92	39	M-10	122	126,6	150	10	3	657	135771	150	40 Sh
										135772	260	50 Sh
										135773	330	60 Sh
										135774	390	70 Sh
BRB 95 M12	92	39	M-12	122	126,6	150	10	3	657	135761	150	40 Sh
										135762	260	50 Sh
										135763	330	60 Sh
										135764	390	70 Sh
BRB 110 M12	106	41	M-12	137	149	175	13	3	857	135241	200	40 Sh
										135242	305	50 Sh
										135243	420	60 Sh
										135244	450	70 Sh
BRB 110 M16	106	41	M-16	137	149	175	13	3	857	135331	200	40 Sh
										135332	305	50 Sh
										135333	420	60 Sh
										135334	450	70 Sh
BRB 125	123	48	M-16	154	162	190	14	4	1170	135618	350	40 Sh
										135620	500	50 Sh
										135622	700	60 Sh
										135624	900	70 Sh

BRB 150 S.B.	156	53,5	M-16	125	132	164	14,5	4	2030	135205	450	40 Sh
										135206	570	50 Sh
										135207	800	60 Sh
										135208	1000	70 Sh
BRB 150	156	53,5	M-16	176	188	218	14,5	4	1840	135161	450	40 Sh
										135162	570	50 Sh
										135163	800	60 Sh
										135164	1000	70 Sh
BRB 180	186	84	M-20	146	150	181	14	5	3800	135391	875	40 Sh
										135392	1200	50 Sh
										135393	1700	60 Sh
										135394	2400	70 Sh
BRB 220	230	105	M-24	180	180	220	19	6	6716	135201	1600	40 Sh
										135200	2400	50 Sh
										135202	3400	60 Sh
										135203	4200	70 Sh



BSB Mounts

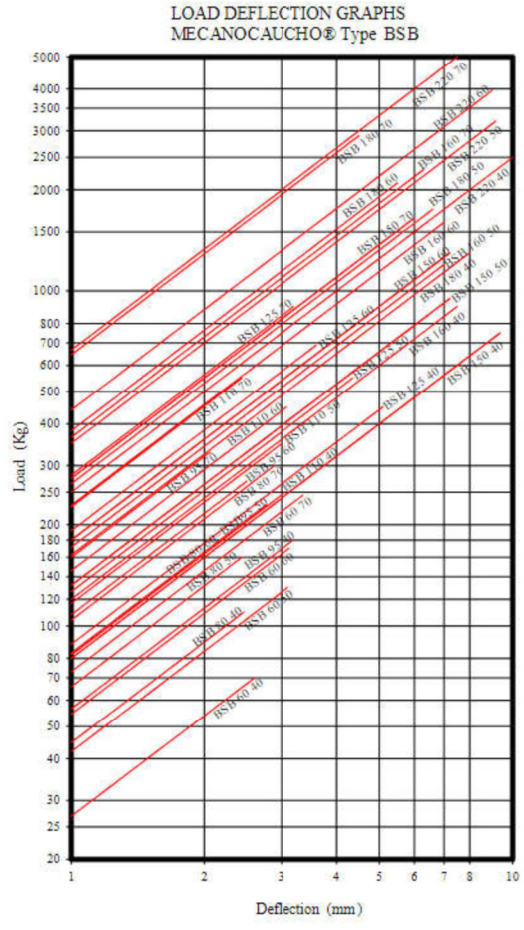
DRAWINGS



DIMENSIONS

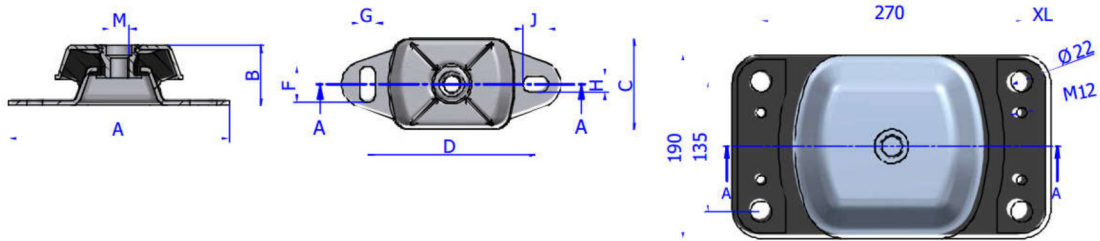
Type	A (mm)	B (mm)	C (mm)	D1 (Min.)	D2 (Max.)	E (mm)	F (mm)	G (mm)	Weight (gr)	Code	Load (kg)	Shore
BSB 60	64	34	M-10	76,5	90,5	110	9	2,5	235	135106	70	40 Sh
										135109	130	50 Sh
										135107	170	60 Sh
										135108	245	70 Sh
BSB 80 M10	78	31	M-10	108,2	111,2	130	9,2	3	355	135261	110	40 Sh
										135262	160	50 Sh
										135263	230	60 Sh
										135264	300	70 Sh
BSB 80 M12	78	31	M-12	108,2	111,2	130	9,2	3	351	135265	110	40 Sh
										135266	160	50 Sh
										135267	230	60 Sh
										135268	300	70 Sh
BSB 95 M10	92	34	M-10	122	126,4	150	10	3	488	135311	180	40 Sh
										135312	230	50 Sh
										135313	270	60 Sh
										135314	330	70 Sh

BSB 95 M12	92	34	M-12	122	126,4	150	10	3	488	135315	180	40 Sh
										135316	230	50 Sh
										135317	270	60 Sh
										135318	330	70 Sh
BSB 110 M12	106	37	M-12	137	149	175	13	3	785	135335	250	40 Sh
										135336	350	50 Sh
										135337	450	60 Sh
										135338	550	70 Sh
BSB 110 M16	106	37	M-16	137	149	175	13	3	785	135150	250	40 Sh
										135151	350	50 Sh
										135152	450	60 Sh
										135153	550	70 Sh
BSB 125	123	43	M-16	154	162	190	14	4	1109	135351	450	40 Sh
										135352	550	50 Sh
										135353	690	60 Sh
										135354	900	70 Sh
BSB 150 B.C.	156	49	M-16	125	132	164	14,5	4	2060	135371	750	40 Sh
										135372	950	50 Sh
										135373	1300	60 Sh
										135374	1650	70 Sh
BSB 150	156	49	M-16	176	188	218	14,5	4	1818	135361	750	40 Sh
										135362	950	50 Sh
										135363	1300	60 Sh
										135364	1650	70 Sh
BSB 160	156	57	M-20	140	140	170	14,5	4	2200	135381	900	40 Sh
										135382	1200	50 Sh
										135383	1600	60 Sh
										135384	2300	70 Sh
BSB 180	180	67	M-20	149	163	192	14,5	4	3800	135181	1300	40 Sh
										135184	1750	50 Sh
										135182	2100	60 Sh
										135183	2900	70 Sh
BSB 220	230	105	M-24	180	180	220	19	6	6716	135301	2500	40 Sh
										135302	3200	50 Sh
										135303	4000	60 Sh
										135304	5000	70 Sh



Marine Mounts

DRAWINGS

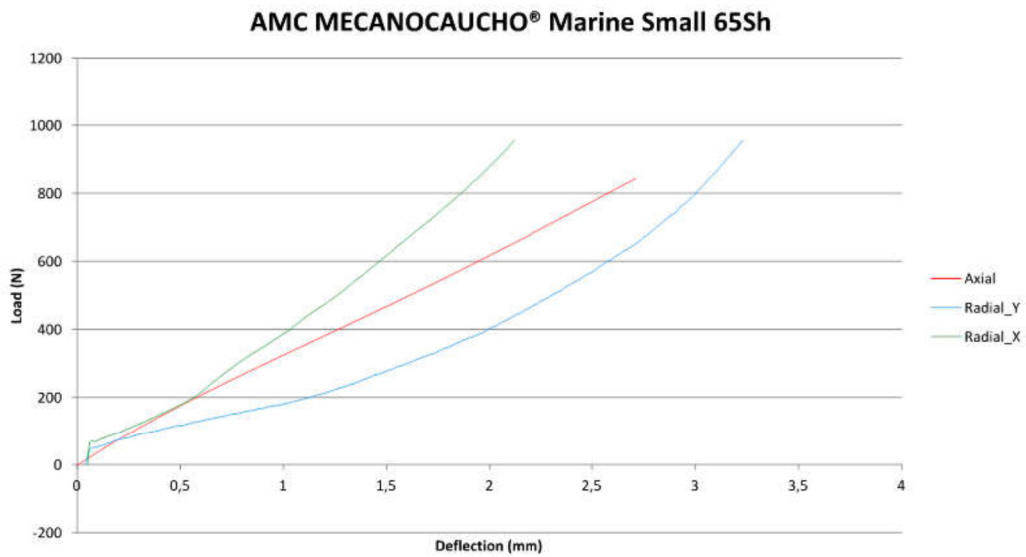
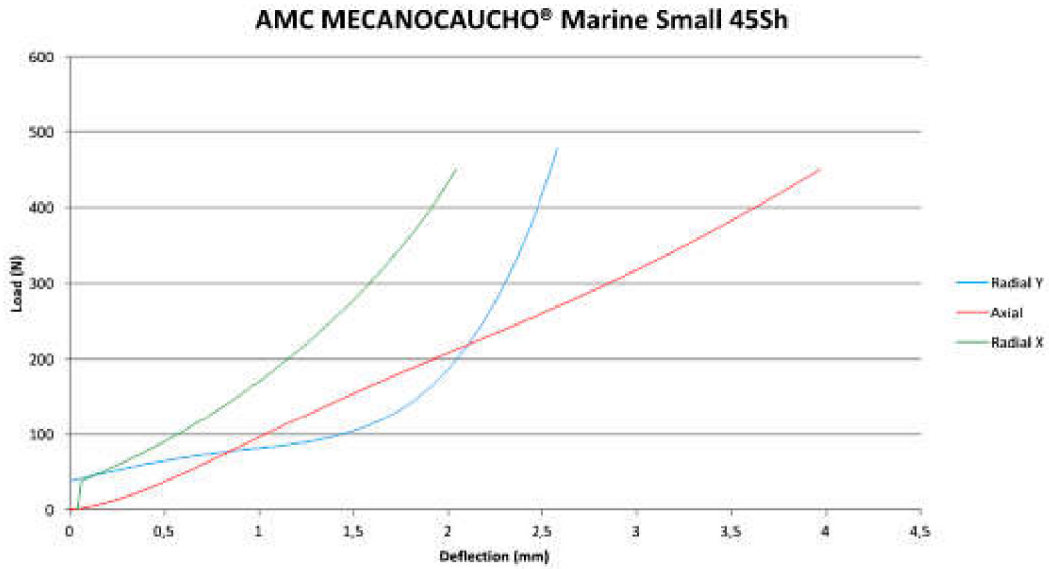


DIMENSIONS

Type	A (mm)	B (mm)	C (mm)	D (mm)	F (mm)	G (mm)	H (mm)	J (mm)	M	Weight (gr)	Code	Load (kg)	Shore
SMALL	120	40	60	100	14	11	14	11	M-12	397	136001	35	40 Sh
											136002	45	45 Sh
											136003	70	55 Sh
											136004	95	65 Sh
											136005	110	75 Sh
MEDIUM	184	50	75	140	30	13	13	22	M-16	857	136021	95	35 Sh
											136022	120	45 Sh
											136023	220	55 Sh
											136024	280	65 Sh
											136025	450	75 Sh
LARGE	228	68	112	182	34	18	18	26	M-20	2250	136041	350	45 Sh
											136042	525	55 Sh
											136043	800	65 Sh
											136044	1080	75 Sh

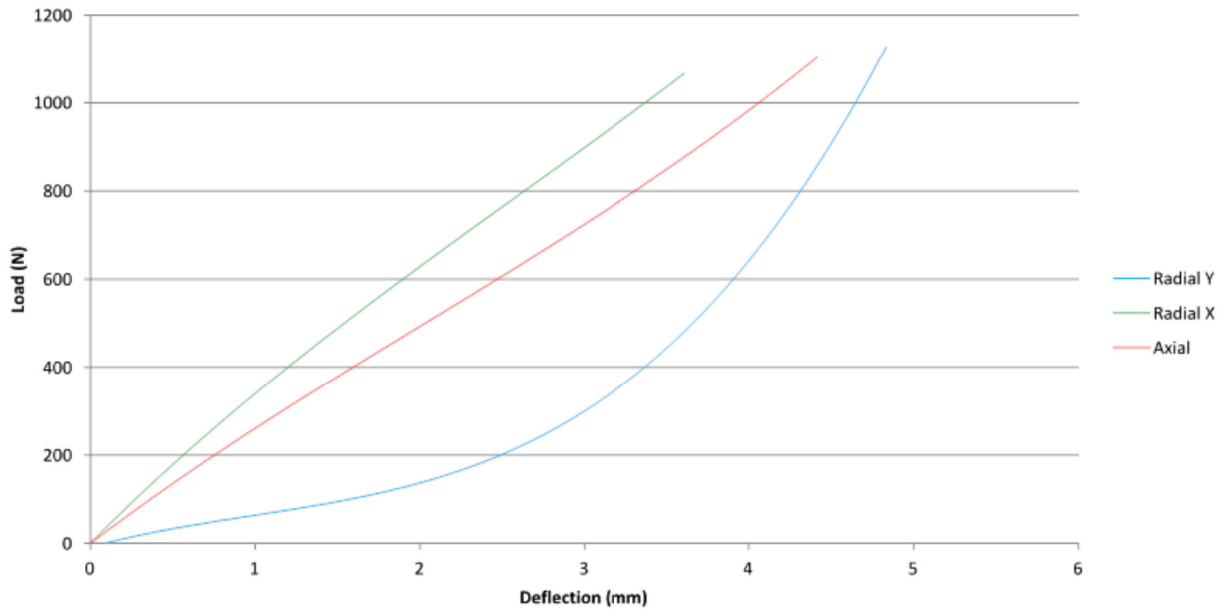
Marine Mounts

Load deflection curves for longitudinal and transversal direction, for reference only:

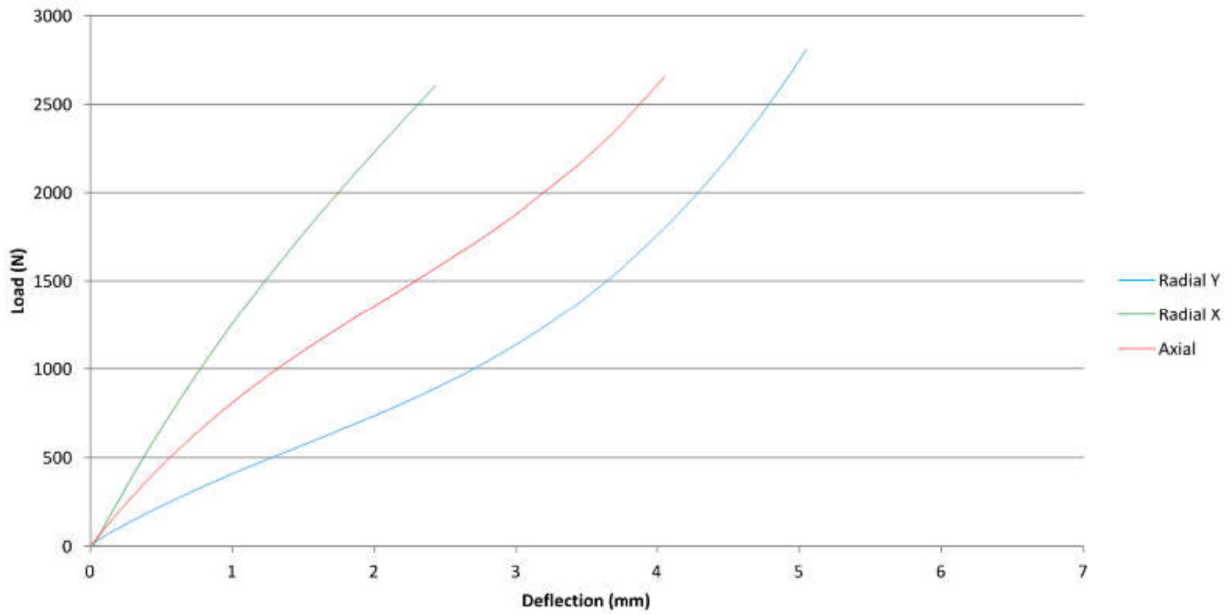


Marine Mounts

AMC MECANOCAUCHO® Marine Medium 45Sh

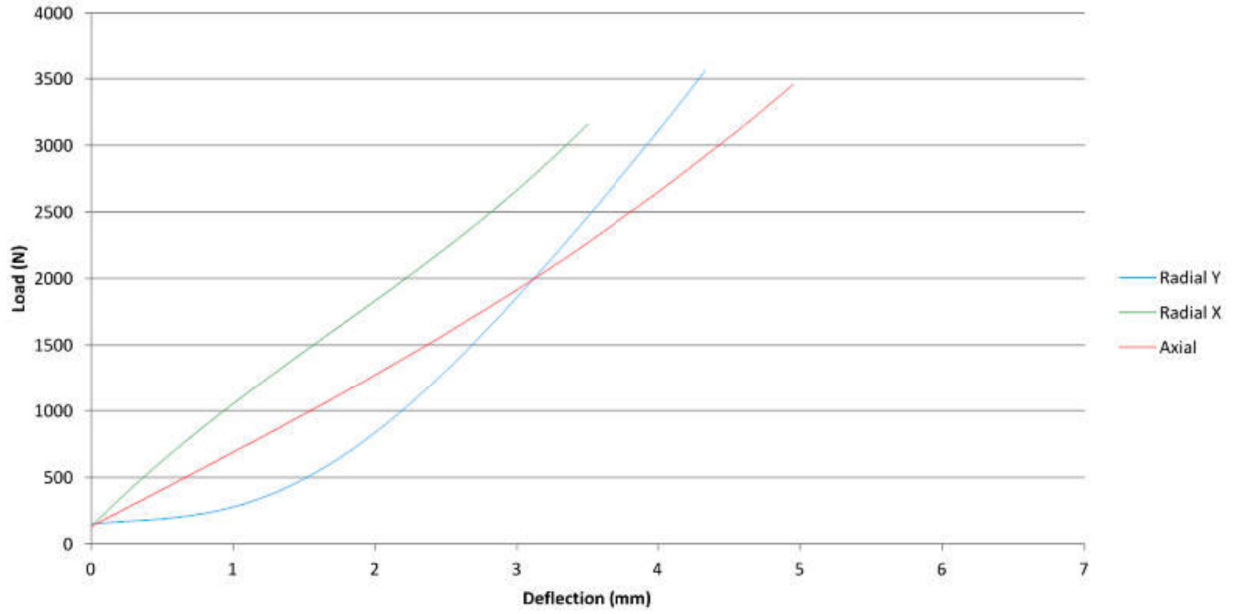


AMC MECANOCAUCHO® Marine Medium 65Sh

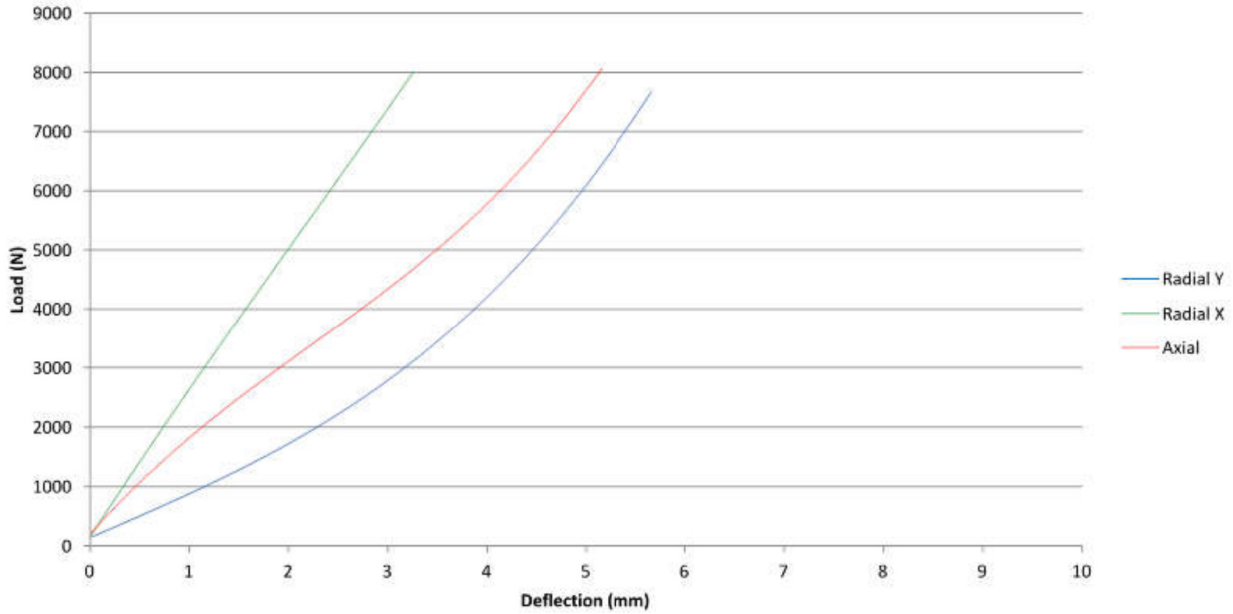


Marine Mounts

AMC MECANOCAUCHO® Marine Large 45Sh

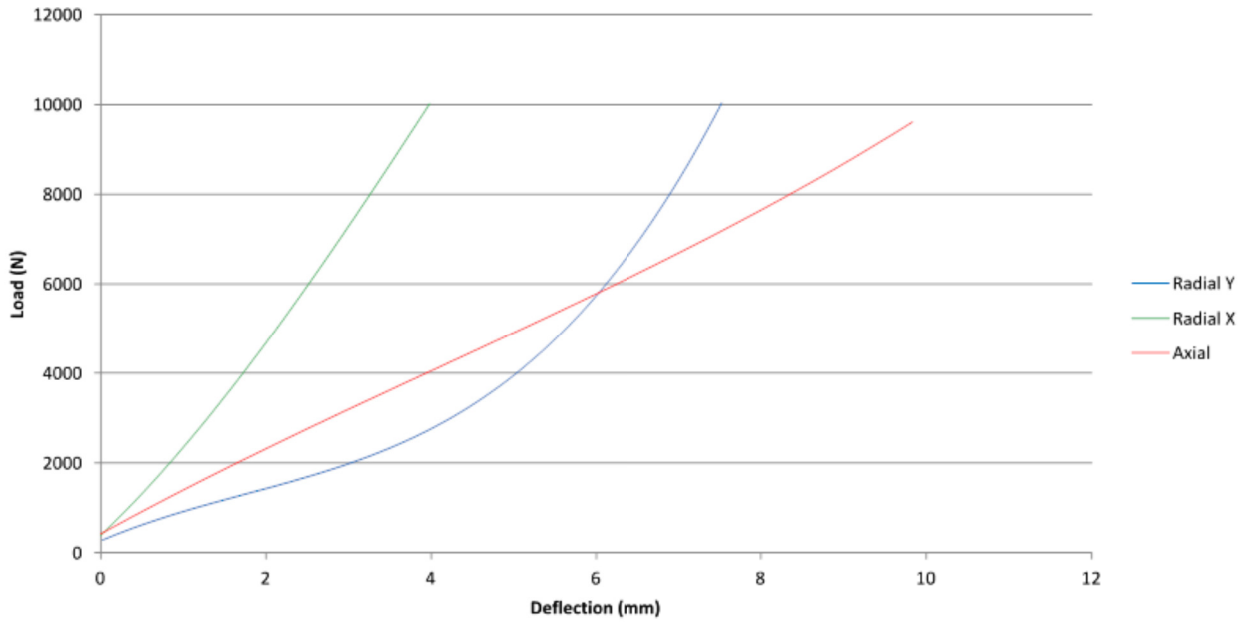


AMC MECANOCAUCHO® Marine Large 65Sh



Marine Mounts

AMC MECANOCAUCHO® Marine XL 40Sh



AMC MECANOCAUCHO® Marine XL 60Sh

