GN 148.4 — Vibration Damping Elements

Rubber, Flange Steel, for Tensile / Compressive Load
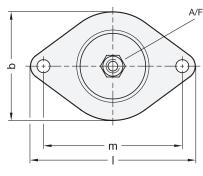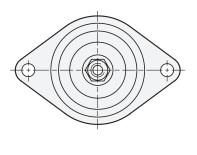
3.1
3.2
3.3
3.4
3.5
3.6
3.7
3.8
3.9
3.10

Type **A**

Type **B**

3 Type

A For compressive load
B For tensile / compressive load

d$_1$		d$_2$	b	d$_3$	d$_4$	h$_1$	h$_2$	Length l	m	A/F
Type A	Type B			Type B						
40	-	M 8	75	-	9	33	2,5	114	96	15
-	56	M 8	75	67	9	33	2,5	114	96	15

Specification

Vibration damping element
Natural rubber (NR)
• Vulcanized
• Black
• Operating temperature -40 °C to +80 °C
• Hardness Shore A ±5

- Soft   **40**
- Medium   **60**
- Hard   **70**

Contact plate / Threaded insert
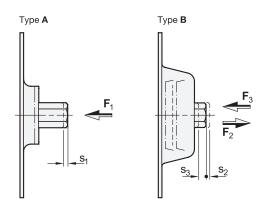Steel zinc plated, blue passivated   **ST**

RoHS

Vibration damping elements GN 148.4 absorb vibrations to protect the environment of a machine from vibrations and noise.

Type B is designed primarily for tensile loads, making it suitable for overhead applications. In combination with type A, it can also be mounted on the side (see application example).

see also...	Seite
GN 148 Leveling Feet	QVX
GN 148.3 Vibration Damping Elements	QVX

Technical Information	
Overview of Types Vibration Damping Elements / Buffers / Rubber Buffers	QVX
Guide to Selecting Vibration Damping Elements	QVX
Plastic Characteristics	QVX

How to order		
	1	d$_1$
	2	d$_2$
	3	Type
GN 148.4-56-M8-B-40-ST	**4**	Hardness
	5	Material

Type **A**   Type **B**

Terms

F_1 = Static compressive load
F_2 = Static tensile load
F_3 = Static compressive load
s_1 = Compression (spring travel) under load F_1
s_2 = Elongation (spring travel) under load F_2
s_3 = Compression (spring travel) under load F_3
The spring rate R is the load which causes the damping element to be compressed / elongated by 1 mm.

Formula for calculating spring rate: $R = \dfrac{F}{s}$

The values listed in the table can be used to determine the degree of isolation as a function of the interference frequency, in accordance with the approach shown on page XYZ.
The information on load capacity is non-binding guidelines and excludes any liability. They generally do not constitute a guarantee of quality. Whether a product is suitable for a particular application must be determined in each individual case by the user.

Type A

d_1	Hardness in Shore	Max. static load F_1 in N	Spring rate R_1 in N/mm	Max. compression s_1 in mm
40	40	654	327	2
40	60	990	495	2
40	70	1543	771,5	2

Type B

d_1	Hardness in Shore	Max. static load F_2 in N	Spring rate R_2 in N/mm	Max. elongation s_2 in mm	Max. static load F_3 in N	Spring rate R_3 in N/mm	Max. compression s_3 in mm
56	40	863	431,5	2	88	17,6	5
56	60	1000	500	2	151	30,2	5
56	70	1806	903	2	201	40,2	5

Application Example

Type **B**

Type **B**

Type **A**