



The world is  
in motion

- so are we



high quality technical  
rubber products

Seitdem die Erde ihren Platz im Weltall eingenommen hat, ist unser Planet in ständiger Bewegung. Die Natur und der Mensch haben sich ständig nach der Schaffung und Erhaltung des friedlichen Zusammenlebens gestrebt, aber der Mensch, mit seinen selbst hergestellten Konstruktionen bedeutet das größte Hindernis für eine harmonische Symbiose. Seit der Erfindung des Rades läuft alles. Alles bewegt sich, schlägt sich, plumpst und wirft sich. Alles zittert, aber vor allem und in erster Linie; schwingt. Sowohl unter als auch auf der Oberfläche unserer wunderbaren, einzigartigen Erdkugel.

Der Mensch hat sich fast alles ergattert, er hat aber den teuersten Schatz, die Stille verloren.

Wir helfen Ihnen diesen unermesslichen Wert wiederzugewinnen, denn wir kennen die Antwort – die stille Lösung: Meta-Vulk Kft. **Die Welt ist in Bewegung und wir bewegen uns mit.**

## The world is in motion – so are we.



Die Meta-Vulk Kft. bietet eine breite Auswahl der den höchsten technischen Erwartungen entsprechenden Produkte: Pressvulkanisierte Gummitteile beziehungsweise Produkte mit Gummi-Metallbindungen und extrudierte Isolierprofile, von den Schwingungsdämpfern bis zum Türpuffer, von den Halterungen bis zu den Kabelführern, vom Röhrhalter bis zum Rampenpuffer.

Die Maschinenbau- und Bauindustrie, die Haushalts- und Schwerindustrie, die Maschinenbau- und Bauindustrie, die Rüstungsindustrie, der Luft-, Schiff- und Zugs- und Straßenverkehr gehören alle zu unseren geschätzten Kunden.

Wählen Sie aus unserem Standardproduktenkatalog oder beehren Sie uns mit Ihrer persönlichen Angebotsanforderung und wir bieten Ihnen die verschiedensten Lösungen aus unseren, aus Naturkautschuk und verschiedenen Kunstkautschuksorten. (NK, SBR, NBR, EPDM, CR, Silikon) hergestellten Produkten verschiedener Sh -Härte (25-90).



The world of Meta-Vulk.



International Certification

## ZERTIFIKAT

Die Zertifizierungsstelle Eupont Cert bescheinigt hiermit, dass



**Meta-Vulk Kft.**  
H-2038 Söskút, Ipari Park Hrsz. 3587/2

das Qualitätsmanagementsystem auf dem Geltungsbereich

**Handel von technischen Gummiwaren**

gemäß der Norm EN ISO 9001:2008 eingeführt, und die Nachweise der regelwerkskonformen Anwendung auf dem EUPONT CERT Auditverfahren erbracht hat.



Gültig bis: 30.04.2016.

Die Voraussetzung der Gültigkeitserhaltung des Zertifikates besteht in der regelmäßigen Durchführung der Überwachungsaudits.

Zertifikat Registrations-No. MR 464 13 EU

Bestätigt am: 23.04.2013.



www.eupontcert.eu

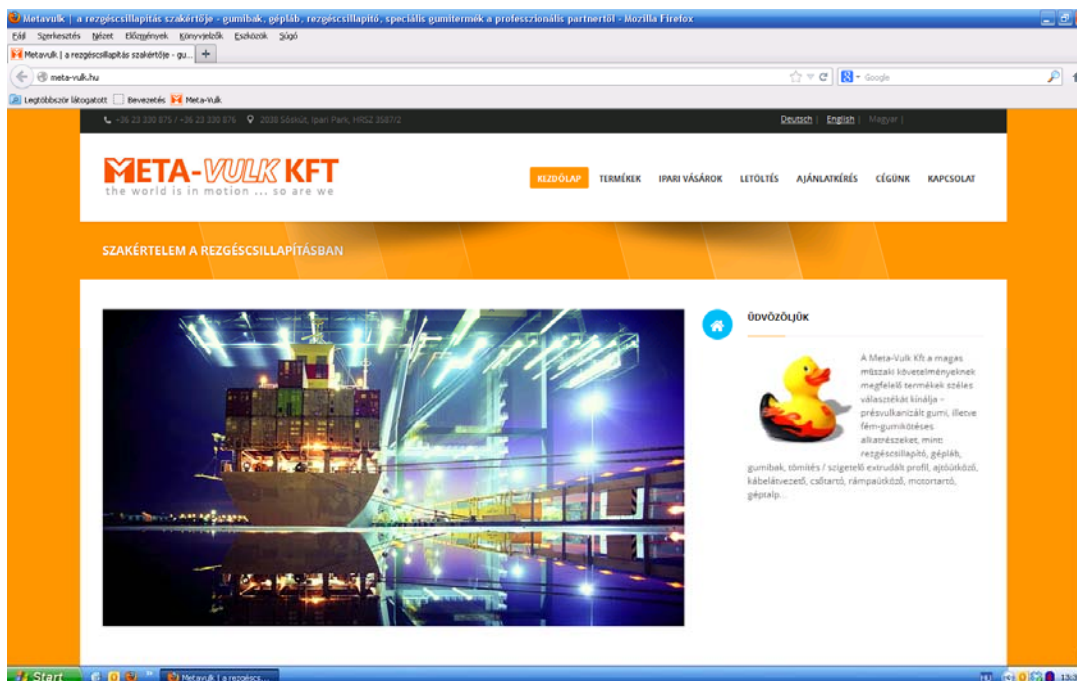
*[Signature]*  
Geschäftsführer





Besuchen Sie uns bitte unsere aktualisierte Webseite und verfolgen Sie unsere Neuigkeiten, Ereignisse, Ausstellungen und unseren täglich aktualisierten Katalog zurück.

[www.meta-vulk.hu](http://www.meta-vulk.hu)



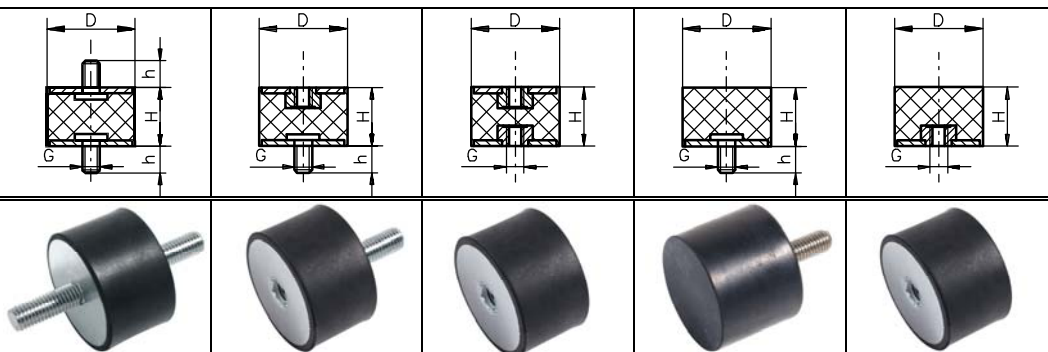
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## STANDARD VIBRATION DAMPERS

|  |    |  |                               |  |                      |  |                    |  |              |  |  |
|---|----|---|-------------------------------|---|----------------------|--|--------------------|---|--------------|---|--|
|   |    |  |                               |  |                      |   |                    |  |              |  |  |
| D   | H  | Type 1  | Type 2                        | Type 3  | Type 4               | Type 5   |                    |   |              |   |  |
| 6   | 7  | M3xh  | M3xh/M3                       | M3  | M3xh                 | M3   |                    |   |              |   |  |
| 8   | 5  | M3xh  | M3xh/M3                       | M3  | M3xh                 | M3   |                    |   |              |   |  |
| 8   | 8  |   |                               |   |                      |  |                    |   |              |   |  |
| 8   | 10 |   |                               |   |                      |  |                    |   |              |   |  |
| 9   | 12 | M3xh<br>M4xh<br>M5xh  | M3xh/M3<br>M4xh/M4            | M3<br>M4  | M3xh<br>M4xh<br>M5xh | M3<br>M4<br>M5   |                    |   |              |   |  |
| 10  | 8  | M3xh<br>M4xh<br>M5xh  | M3xh/M3<br>M4xh/M4            | M3  | M3xh<br>M4xh<br>M5xh | M3<br>M4<br>M5   |                    |   |              |   |  |
| 10  | 10 |   |                               |   |                      |  |                    |   |              |   |  |
| 10  | 15 |   |                               |   |                      |  |                    |   |              |   |  |
| 10  | 17 |   |                               |   |                      |  |                    |   |              |   |  |
| 10  | 18 |   |                               |   |                      |  |                    |   |              |   |  |
| 10  | 30 |   |                               |   |                      |  |                    |   |              |   |  |
| 11  | 11 | M3xh<br>M4xh<br>M5xh  | M3xh/M3<br>M4xh/M4            | M3<br>M4  | M3xh<br>M4xh<br>M5xh | M3<br>M4<br>M5   |                    |   |              |   |  |
| 12  | 10 | M3xh<br>M4xh<br>M5xh  | M3xh/M3<br>M4xh/M4            | M3  | M3xh<br>M4xh<br>M5xh | M3<br>M4<br>M5   |                    |   |              |   |  |
| 13  | 26 | M4xh<br>M5xh  | M4xh/M4<br>M5xh/M5<br>M6xh/M6 | M3<br>M4<br>M5  | M4xh<br>M5xh<br>M6xh | M3<br>M4   |                    |   |              |   |  |
| 15  | 4  | M4xh<br>M5xh  |                               |   | M4xh                 |  |                    |   |              |   |  |
| 15  | 5  |   |                               |   |                      |  |                    |   |              |   |  |
| 15  | 6  |   |                               |   |                      |  |                    |   |              |   |  |
| 15  | 7  |   |                               |   |                      |  |                    |   |              |   |  |
| 15  | 8  |   |                               |   |                      |  |                    |   |              |   |  |
| 15  | 9  |   |                               |   |                      |  |                    |   |              |   |  |
| 15  | 10 |   |                               |   |                      |  |                    |   |              |   |  |
| 15  | 12 |   |                               |   |                      |  |                    |   |              |   |  |
| 15  | 13 |   |                               |   |                      |  |                    |   |              |   |  |
| 15  | 15 |   |                               |   |                      |  |                    |   |              |   |  |
| 15  | 20 |   |                               |   |                      |  |                    |   |              |   |  |
| 15  | 25 |   |                               |   |                      |  |                    |   |              |   |  |
| 15  | 30 |   |                               |   |                      |  |                    |   |              |   |  |
| 16  | 18 |   |                               |   | M4xh<br>M5xh         |  | M4xh/M4<br>M5xh/M5 | M3<br>M4<br>M5  | M4xh<br>M5xh | M3<br>M4<br>M5  |  |
| 20  | 5  | M5xh<br>M6xh<br>M8xh  | M5xh/M5<br>M6xh/M6            |   | M5xh<br>M6xh<br>M8xh | M5<br>M6   |                    |   |              |   |  |
| 20  | 8  |   |                               |   |                      |  |                    |   |              |   |  |
| 20  | 10 |   |                               |   |                      |  |                    |   |              |   |  |

| G  | h                            |
|----|------------------------------|
| M3 | 4,6,10                       |
| M4 | 6,8,10                       |
| M5 | 10,12,15                     |
| M6 | 6,8,10,12,15,18,20,23,28     |
| M8 | 8,10,12,15,18,20,23,25,28,33 |



| D  | H  | Type 1 | Type 2    | Type 3 | Type 4  | Type 5 |
|----|----|--------|-----------|--------|---------|--------|
| 20 | 11 | M5xh   | M5xh/M5   |        | M5xh/M5 | M5     |
| 20 | 12 | M6xh   | M6xh/M6   |        | M6xh/M6 | M6     |
| 20 | 13 | M8xh   |           |        | M8h/M8  | M8     |
| 20 | 15 |        | M5xh/M5   | M5     |         |        |
| 20 | 17 |        | M6xh/M6   | M6     |         |        |
| 20 | 20 |        | M8h/M8    | M5     |         |        |
| 20 | 23 |        |           | M6     |         |        |
| 20 | 25 |        |           | M8     |         |        |
| 20 | 30 |        |           |        |         |        |
| 25 | 8  | M6xh   |           |        | M6xh    |        |
| 25 | 10 | M6xh   |           |        | M8xh    | M6     |
| 25 | 12 | M8xh   |           |        |         | M6     |
| 25 | 13 |        |           |        |         | M8     |
| 25 | 14 |        |           |        |         |        |
| 25 | 15 |        | M6xh/M6   | M6     |         |        |
| 25 | 17 |        | M8xh/M8   |        |         |        |
| 25 | 18 |        |           |        |         |        |
| 25 | 19 |        |           |        |         |        |
| 25 | 20 |        |           | M6     |         |        |
| 25 | 22 |        |           | M8     |         |        |
| 25 | 25 |        |           |        |         |        |
| 25 | 27 |        |           |        |         |        |
| 25 | 28 |        |           |        |         |        |
| 25 | 30 |        |           |        |         |        |
| 26 | 22 | M6xh   | M6xh/M6   | M6     | M6xh    | M6     |
|    |    | M8xh   | M8xh/M8   | M8     | M8xh    | M8     |
| 30 | 8  |        |           |        | M6xh    |        |
| 30 | 10 |        |           |        | M8xh    | M6     |
| 30 | 12 |        |           |        | M10xh   | M6     |
| 30 | 13 |        |           |        |         | M8     |
| 30 | 15 | M6xh   | M6xh/M6   | M6     |         | M6     |
| 30 | 17 | M8xh   | M8xh/M8   |        |         | M8     |
| 30 | 18 | M10xh  | M10xh/M10 |        |         | M10    |
| 30 | 20 |        |           | M6     |         |        |
| 30 | 22 |        |           | M8     |         |        |
| 30 | 25 |        |           | M6     |         |        |
| 30 | 30 |        |           | M8     |         |        |
| 30 | 35 |        |           | M10    |         |        |
| 30 | 45 |        |           |        |         |        |
| 30 | 40 |        |           |        |         |        |
| 40 | 10 | M6xh   |           |        | M6xh    | M6     |
| 40 | 15 | M8xh   | M6xh/M6   | M6     | M8xh    | M6     |
| 40 | 20 | M10xh  | M8xh/M8   | M6     | M10xh   | M8     |
| 40 | 25 |        | M10xh/M10 | M8     |         | M10    |
| 40 | 27 |        |           | M6     |         |        |
| 40 | 28 |        |           | M8     |         |        |
| 40 | 30 |        |           | M10    |         |        |

| G   | h                                |
|-----|----------------------------------|
| M5  | 10,12,15                         |
| M6  | 6,8,10,12,15,18,20,23,28         |
| M8  | 8,10,12,15,18,20,23,25,28,33     |
| M10 | 10,12,15,18,20,23,25,28,33,38,43 |

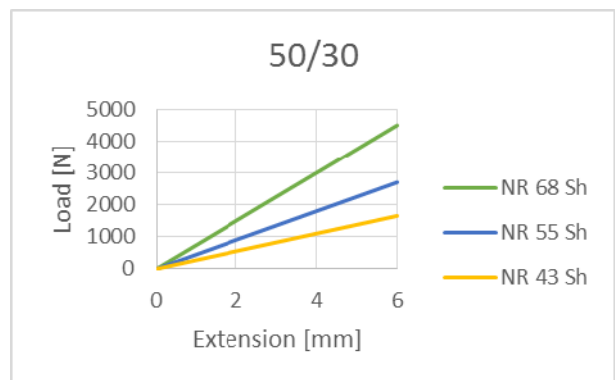
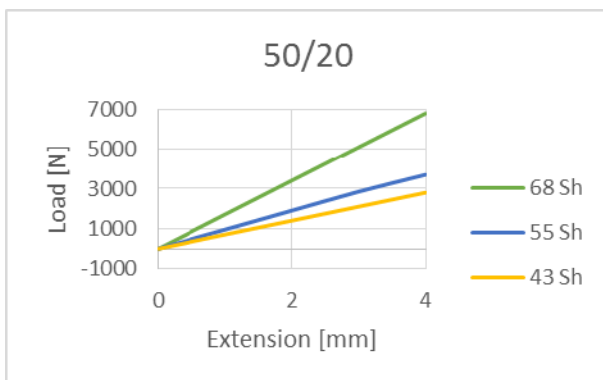
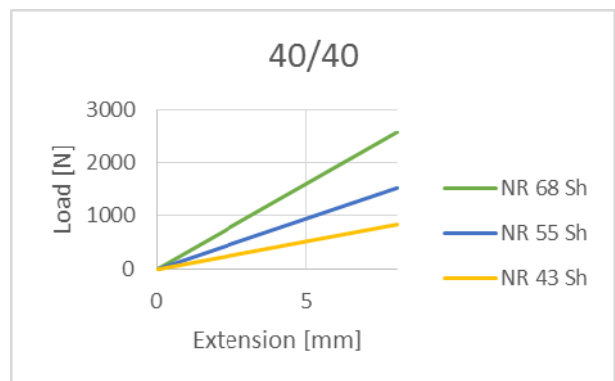
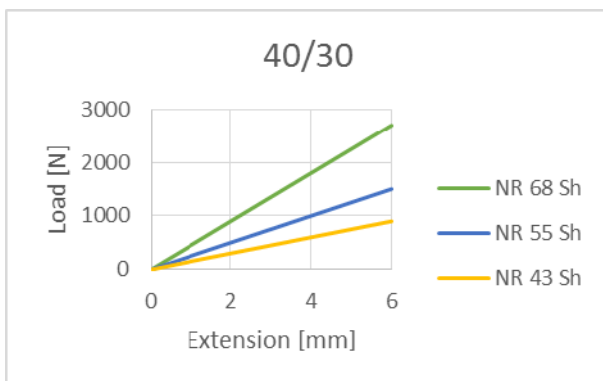
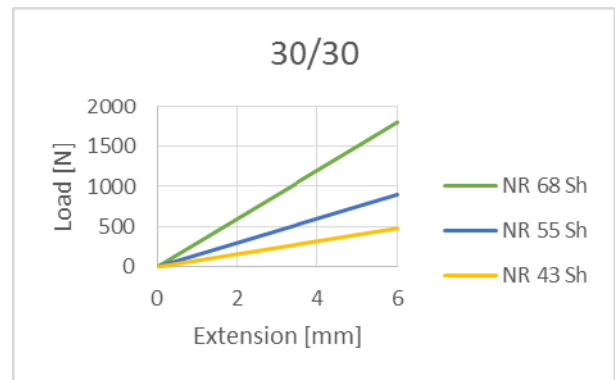
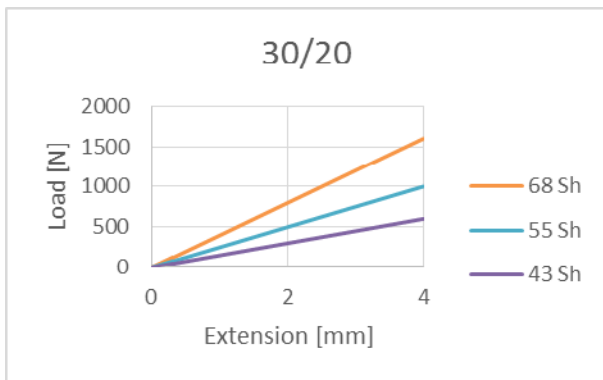
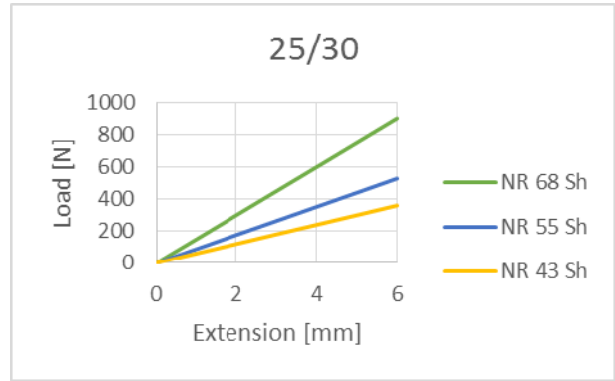
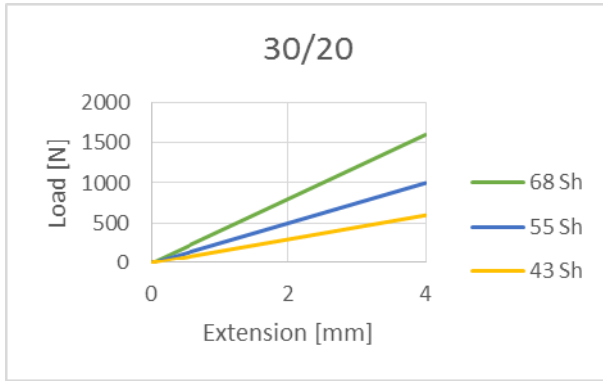
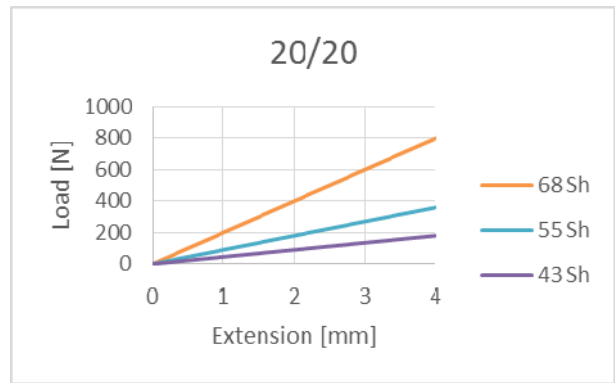
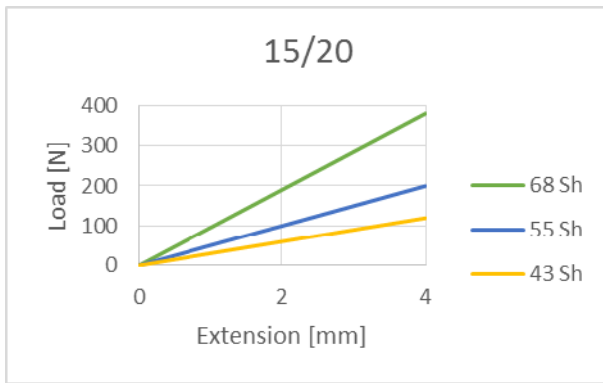
|  |    |   |           |   |                        |   |  |   |  |   |  |
|---|----|---|-----------|---|------------------------|---|--|---|--|---|--|
|   |    |  |           |  |                        |  |  |  |  |  |  |
| D   | H  | Type 1  | Type 2    | Type 3  | Type 4                 | Type 5  |  |   |  |   |  |
| 40  | 35 | M6xh  | M6xh/M6   | M6  | M6xh                   | M6  |  |   |  |   |  |
| 40  | 38 | M8xh  | M8xh/M8   | M8  | M8xh                   | M8  |  |   |  |   |  |
| 40  | 40 | M10xh   | M10xh/M10 | M10   | M10xh                  | M10   |  |   |  |   |  |
| 40  | 45 |   |           |   |                        |   |  |   |  |   |  |
| 40  | 60 |   |           |   |                        |   |  |   |  |   |  |
| 50  | 7  |   |           |   |                        |   |  |   |  |   |  |
| 50  | 9  | M8xh  |           |   | M8xh<br>M10xh          |   |  |   |  |   |  |
| 50  | 12 |   |           |   |                        | M8  |  |   |  |   |  |
| 50  | 15 | M8xh  |           |   | M8xh<br>M10xh<br>M12xh | M8  |  |   |  |   |  |
| 50  | 17 | M10xh   |           |   |                        | M8  |  |   |  |   |  |
| 50  | 20 | M12xh   | M8xh/M8   | M8  |                        | M10   |  |   |  |   |  |
| 50  | 21 |   | M10xh/M10 | M8  |                        | M12   |  |   |  |   |  |
| 50  | 25 |   | M12xh/M12 | M8<br>M10   |                        |   |  |   |  |   |  |
| 50  | 27 |   |           | M8<br>M10<br>M12  |                        |   |  |   |  |   |  |
| 50  | 28 |   |           |   |                        |   |  |   |  |   |  |
| 50  | 30 |   |           |   |                        |   |  |   |  |   |  |
| 50  | 35 |   |           |   |                        |   |  |   |  |   |  |
| 50  | 37 |   |           |   |                        |   |  |   |  |   |  |
| 50  | 40 |   |           |   |                        |   |  |   |  |   |  |
| 50  | 42 |   |           |   |                        |   |  |   |  |   |  |
| 50  | 45 |   |           |   |                        |   |  |   |  |   |  |
| 50  | 50 |   |           |   |                        |   |  |   |  |   |  |
| 50  | 80 |   |           |   |                        |   |  |   |  |   |  |
| 60  | 15 | M8xh  |           |   | M8xh                   | M8  |  |   |  |   |  |
| 60  | 16 | M10xh   |           |   | M10xh                  | M10   |  |   |  |   |  |
| 60  | 20 |   |           | M8  | M12xh                  | M8  |  |   |  |   |  |
| 60  | 25 | M8xh  | M8xh/M8   | M8  |                        | M10   |  |   |  |   |  |
|   |    | M10xh   | M10xh/M10 | M10   |                        | M12   |  |   |  |   |  |
| 60  | 30 | M12xh   | M8xh/M8   | M8  |                        |   |  |   |  |   |  |
| 60  | 35 |   | M10xh/M10 | M10   |                        |   |  |   |  |   |  |
| 60  | 40 |   | M12xh/M12 | M12   |                        |   |  |   |  |   |  |
| 60  | 45 |   |           |   |                        |   |  |   |  |   |  |
| 60  | 50 |   |           |   |                        |   |  |   |  |   |  |
| 60  | 60 |   |           |   |                        |   |  |   |  |   |  |
| 65  | 35 | M12xh   | M12xh/M12 | M12   | M12xh                  | M12   |  |   |  |   |  |
| 70  | 20 |   |           |   | M10xh                  | M10   |  |   |  |   |  |
| 70  | 25 | M10xh   |           | M10   | M12xh                  | M12   |  |   |  |   |  |
| 70  | 30 | M10xh   | M10xh/M10 | M10   |                        |   |  |   |  |   |  |
| 70  | 35 | M12xh   | M12xh/M12 | M12   |                        |   |  |   |  |   |  |
| 70  | 40 |   |           |   |                        |   |  |   |  |   |  |
| 70  | 45 |   |           |   |                        |   |  |   |  |   |  |
| 70  | 50 |   |           |   |                        |   |  |   |  |   |  |
| 70  | 53 |   |           |   |                        |   |  |   |  |   |  |
| 70  | 55 |   |           |   |                        |   |  |   |  |   |  |
| 70  | 60 |   |           |   |                        |   |  |   |  |   |  |
| 70  | 70 |   |           |   |                        |   |  |   |  |   |  |

| G   | h                                |
|-----|----------------------------------|
| M6  | 6,8,10,12,15,18,20,23,28         |
| M8  | 8,10,12,15,18,20,23,25,28,33     |
| M10 | 10,12,15,18,20,23,25,28,33,38,43 |
| M12 | 10,12,18,20,23,25,27,33,37,42    |

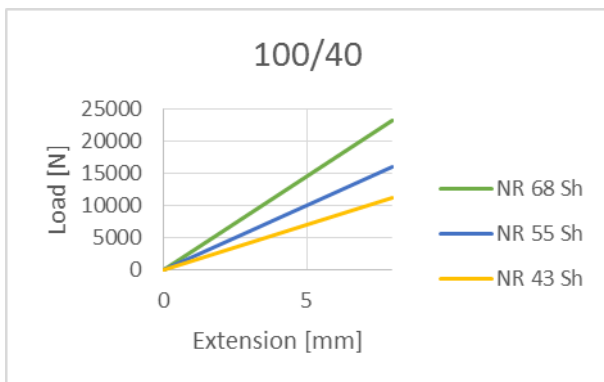
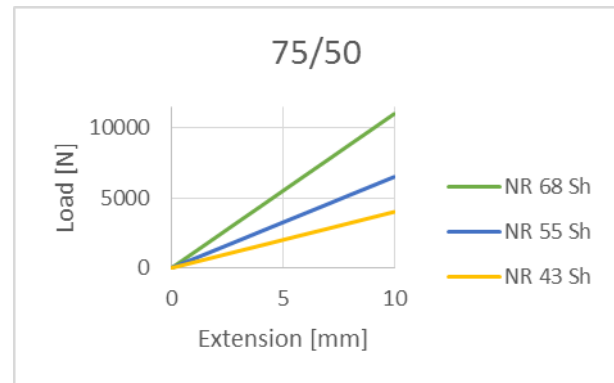
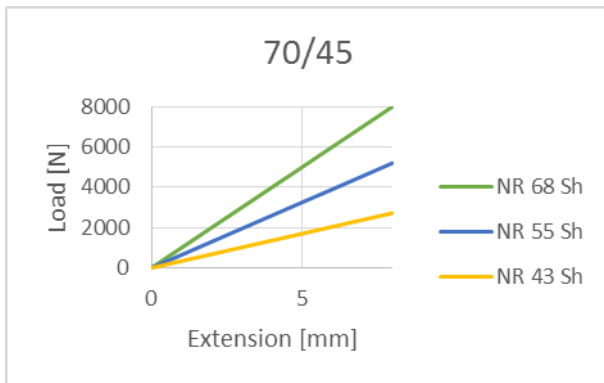
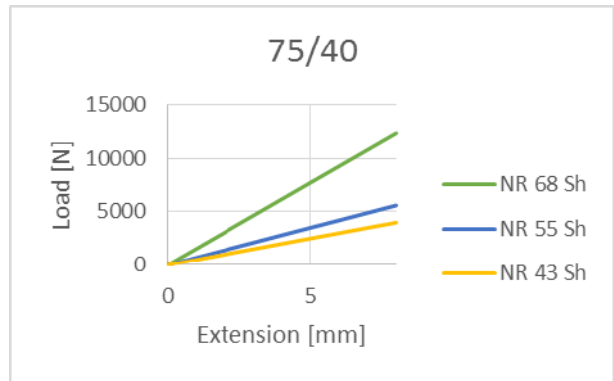
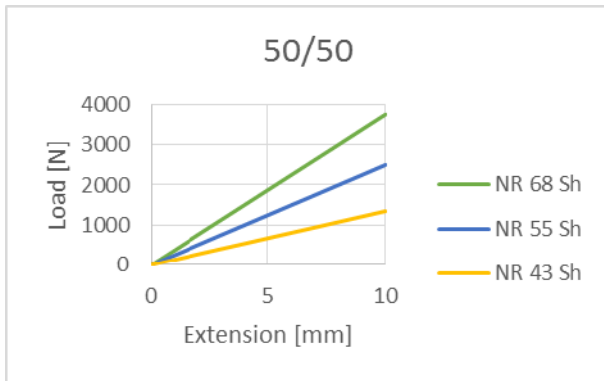
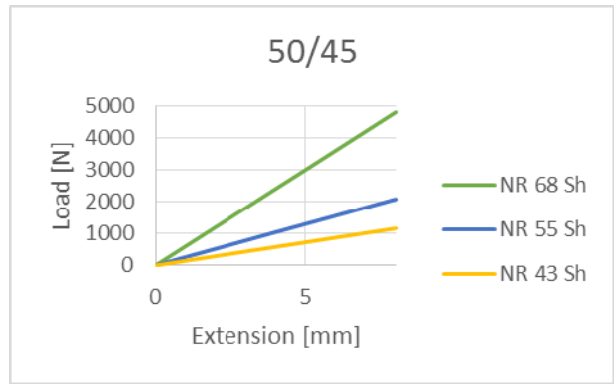
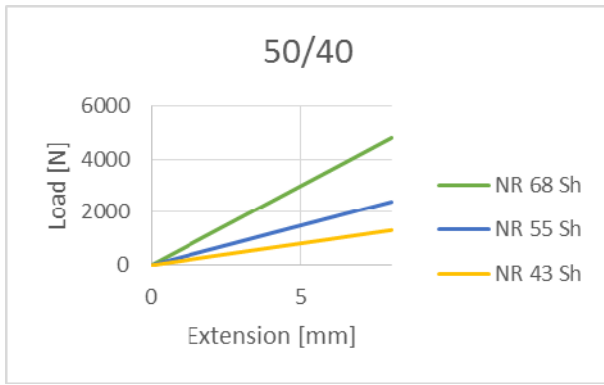
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|---|-----|---|-----------|---|--------|--|--|---|--|---|--|
|   |     |  |           |  |        |  |  |  |  |  |  |
| D   | H   | Type 1  | Type 2    | Type 3  | Type 4 | Type 5   |  |   |  |   |  |
| 75  | 20  |   |           |   | M10xh  | M10  |  |   |  |   |  |
| 75  | 25  | M10xh   | M10xh/M10 | M10   | M12xh  | M12  |  |   |  |   |  |
| 75  | 30  | M12xh   | M12xh/M12 | M10   |        |  |  |   |  |   |  |
| 75  | 35  |   |           | M12   |        |  |  |   |  |   |  |
| 75  | 40  |   |           |   |        |  |  |   |  |   |  |
| 75  | 45  |   |           |   |        |  |  |   |  |   |  |
| 75  | 50  |   |           |   |        |  |  |   |  |   |  |
| 75  | 55  |   |           |   |        |  |  |   |  |   |  |
| 75  | 60  |   |           |   |        |  |  |   |  |   |  |
| 75  | 70  |   |           |   |        |  |  |   |  |   |  |
| 75  | 100 |   |           |   |        |  |  |   |  |   |  |
| 80  | 17  | M10xh   | M10xh/M10 | M10   | M10xh  | M10  |  |   |  |   |  |
| 80  | 18  | M12xh   | M12xh/M12 | M12   | M12xh  | M12  |  |   |  |   |  |
| 80  | 30  | M14xh   | M14xh/M16 | M14   | M14xh  | M14  |  |   |  |   |  |
| 80  | 40  | M16xh   | M14xh/M16 | M16   | M16xh  | M16  |  |   |  |   |  |
| 80  | 50  |   |           |   |        |  |  |   |  |   |  |
| 80  | 55  |   |           |   |        |  |  |   |  |   |  |
| 80  | 60  |   |           |   |        |  |  |   |  |   |  |
| 80  | 65  |   |           |   |        |  |  |   |  |   |  |
| 80  | 70  |   |           |   |        |  |  |   |  |   |  |
| 80  | 75  |   |           |   |        |  |  |   |  |   |  |
| 80  | 80  |   |           |   |        |  |  |   |  |   |  |
| 90  | 60  | M12xh   | M12xh/M12 | M12   | M12xh  | M12  |  |   |  |   |  |
| 100   | 25  | M12xh   |           |   | M12xh  |  |  |   |  |   |  |
| 100   | 30  | M16xh   |           |   | M16xh  |  |  |   |  |   |  |
| 100   | 35  |   |           | M12   |        | M12  |  |   |  |   |  |
| 100   | 40  |   | M12xh/M12 | M16   |        | M16  |  |   |  |   |  |
| 100   | 45  |   | M16xh/M16 |   |        |  |  |   |  |   |  |
| 100   | 50  |   |           |   |        |  |  |   |  |   |  |
| 100   | 55  |   |           |   |        |  |  |   |  |   |  |
| 100   | 60  |   |           |   |        |  |  |   |  |   |  |
| 100   | 65  |   |           |   |        |  |  |   |  |   |  |
| 100   | 70  |   |           |   |        |  |  |   |  |   |  |
| 100   | 75  |   |           |   |        |  |  |   |  |   |  |
| 100   | 80  |   |           |   |        |  |  |   |  |   |  |
| 100   | 100 |   |           |   |        |  |  |   |  |   |  |
| 150   | 50  | M16xh   |           | M16   | M16xh  | M16  |  |   |  |   |  |
| 150   | 55  | M20xh   | M16xh/M16 | M20   | M20xh  | M20  |  |   |  |   |  |
| 150   | 60  |   | M20xh/M20 |   |        |  |  |   |  |   |  |
| 150   | 75  |   |           |   |        |  |  |   |  |   |  |
| 200   | 100 | M20xh   | M20xh/M20 | M20   | M20xh  | M20  |  |   |  |   |  |

| G   | h                                |
|-----|----------------------------------|
| M10 | 10,12,15,18,20,23,25,28,33,38,43 |
| M12 | 10,12,18,20,23,25,27,33,37,42    |
| M16 | 26,36,41,46                      |
| M20 | 41,45                            |

Bolt / nut sizes not indicated in the above chart might also be available







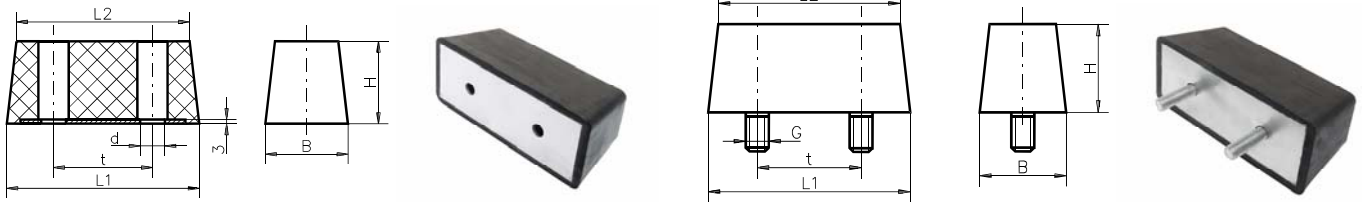
## LOAD DATA

| D  | H  | f [mm] | Fv [daN] |       |       |
|----|----|--------|----------|-------|-------|
|    |    |        | 43Sh     | 57Sh  | 68Sh  |
| 8  | 8  | 0,4    | 0,7      | 1,6   | 4,5   |
|    |    | 0,8    | 1,5      | 3,5   | 9     |
|    |    | 1,2    | 2,5      | 5,5   | 14,5  |
| 10 | 10 | 0,6    | 1,2      | 2,5   | 7     |
|    |    | 1,2    | 2,5      | 6     | 14,5  |
|    |    | 1,6    | 3,5      | 8     | 20,5  |
| 15 | 8  | 0,4    | 3,5      | 7,5   | 21    |
|    |    | 0,8    | 7,5      | 15,5  | 45    |
|    |    | 1,2    | 12       | 25    | 74,5  |
| 15 | 15 | 0,8    | 2        | 4,5   | 12,5  |
|    |    | 1,5    | 4        | 9,5   | 22,5  |
|    |    | 2,5    | 7,5      | 17    | 40    |
| 20 | 15 | 1      | 5,5      | 13,5  | 28    |
|    |    | 2      | 11,5     | 28,5  | 60    |
|    |    | 2,5    | 15       | 37    | 77,5  |
| 20 | 20 | 1      | 3,5      | 8,5   | 18    |
|    |    | 2,5    | 9        | 22,5  | 47,5  |
|    |    | 3,5    | 13       | 32,5  | 70    |
| 25 | 15 | 1      | 9,5      | 23    | 48    |
|    |    | 1,5    | 14,5     | 36    | 74,5  |
|    |    | 2,5    | 26       | 64,5  | 134   |
| 25 | 20 | 1      | 5,5      | 14    | 29,5  |
|    |    | 2,5    | 15       | 37    | 78    |
|    |    | 3,5    | 22       | 54    | 114,5 |
| 30 | 15 | 1      | 16,5     | 29    | 89    |
|    |    | 2      | 46       | 80    | 195   |
|    |    | 2,5    | 61       | 104,5 | 256   |
| 30 | 20 | 1      | 10,5     | 21    | 49    |
|    |    | 2,5    | 29       | 57    | 131,5 |
|    |    | 3,5    | 43       | 84    | 194,5 |
| 30 | 30 | 1,5    | 8        | 17,5  | 39,5  |
|    |    | 3      | 17       | 36,5  | 81,5  |
|    |    | 5,3    | 31,5     | 67,5  | 152   |
| 40 | 30 | 1,5    | 16       | 33,5  | 74,5  |
|    |    | 3      | 33       | 67    | 155,5 |
|    |    | 5,3    | 62       | 130   | 291   |
| 40 | 40 | 2      | 13,5     | 30,5  | 67    |
|    |    | 5      | 36       | 78    | 176,5 |
|    |    | 7      | 53       | 116   | 256,5 |
| 50 | 20 | 1      | 44       | 89,5  | 183   |
|    |    | 2      | 94,5     | 191   | 390   |
|    |    | 3      | 153,5    | 308,5 | 627   |

| D   | H   | f [mm] | Fv [daN] |        |        |
|-----|-----|--------|----------|--------|--------|
|     |     |        | 43Sh     | 57Sh   | 68Sh   |
| 50  | 30  | 1,5    | 27,5     | 60     | 126    |
|     |     | 3      | 58       | 125,5  | 263    |
|     |     | 4,5    | 91,5     | 198    | 414,5  |
| 50  | 40  | 3      | 35       | 78,5   | 167    |
|     |     | 6      | 74,5     | 167    | 354    |
|     |     | 8      | 104,5    | 232,5  | 493    |
| 70  | 45  | 2      | 46       | 101    | 212,5  |
|     |     | 5      | 122,5    | 210    | 563    |
|     |     | 8      | 210,5    | 458    | 961    |
| 75  | 40  | 2      | 69       | 147,5  | 307,5  |
|     |     | 4      | 145,5    | 247,5  | 646,5  |
|     |     | 7      | 279,5    | 590,5  | 1227,5 |
| 75  | 55  | 1,5    | 29       | 64,5   | 137    |
|     |     | 4,5    | 90,5     | 201,5  | 427,5  |
|     |     | 7,5    | 158,5    | 352    | 743,5  |
| 100 | 40  | 2      | 176      | 358    | 734    |
|     |     | 4      | 378,5    | 765    | 1560   |
|     |     | 6      | 614      | 1233,5 | 2500   |
| 100 | 55  | 3      | 130      | 280    | 586,5  |
|     |     | 6      | 276,5    | 591,5  | 1234   |
|     |     | 9      | 442,5    | 942,5  | 1956   |
| 100 | 60  | 3      | 110      | 234    | 504,5  |
|     |     | 6      | 231,5    | 502    | 1054   |
|     |     | 10,5   | 440      | 949    | 1984,5 |
| 100 | 75  | 6      | 155      | 346    | 734    |
|     |     | 12     | 333,5    | 741    | 1568   |
|     |     | 16,5   | 487,5    | 1077,5 | 2279   |
| 150 | 55  | 3      | 414,5    | 915    | 1713,5 |
|     |     | 6      | 892      | 1969,5 | 3659,5 |
|     |     | 9      | 1452     | 3204,5 | 5902,5 |
| 150 | 60  | 3      | 336      | 745    | 1422,5 |
|     |     | 7,5    | 925      | 2046,5 | 3771,5 |
|     |     | 10,5   | 1391,5   | 3075   | 5775   |
| 150 | 75  | 4      | 282,5    | 634,5  | 1259,5 |
|     |     | 10     | 771      | 1726   | 3401   |
|     |     | 14     | 1152     | 2573,5 | 5042,5 |
| 200 | 100 | 6      | 540,5    | 1204   | 2504,5 |
|     |     | 12     | 1150     | 2550   | 5302   |
|     |     | 18     | 1846,5   | 4073,5 | 8467   |

## RP-OG

## RP-2G



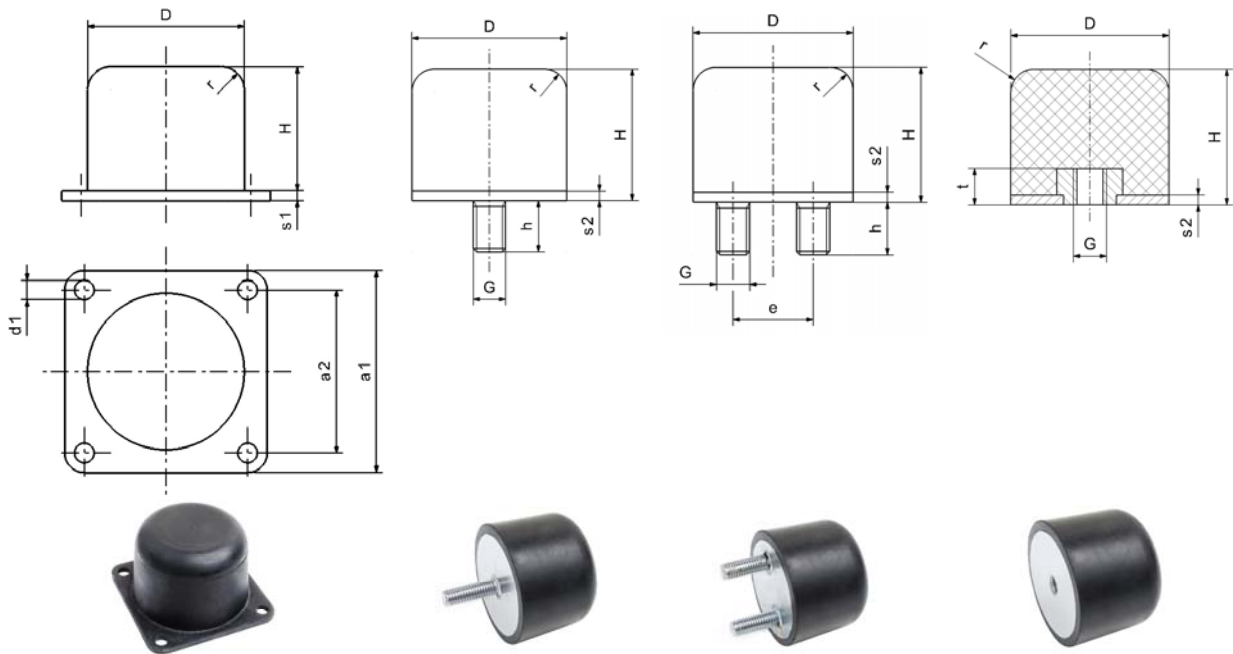
| Type | L1  | L2  | B   | H   | t  | G      | d  |
|------|-----|-----|-----|-----|----|--------|----|
| 150  | 150 | 136 | 60  | 60  | 70 | M10x32 | 11 |
| 200  | 200 | 168 | 100 | 100 | 90 | M12x36 | 13 |

## GP-QP

## GP-1G

## GP-2G

## GP-1I



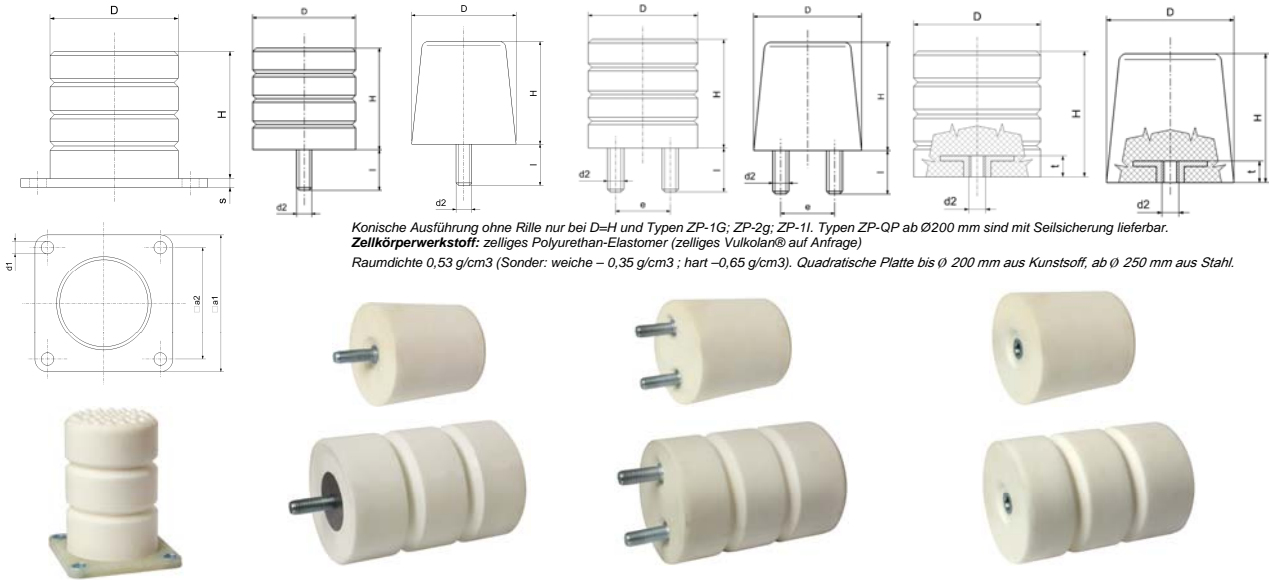
| Type    | D<br>mm | H<br>mm | Measurement |          |         |         |         |         |         |          |          |         | Load capacity |         |        |
|---------|---------|---------|-------------|----------|---------|---------|---------|---------|---------|----------|----------|---------|---------------|---------|--------|
|         |         |         | a1<br>mm    | a2<br>mm | d<br>mm | G<br>mm | e<br>mm | h<br>mm | r<br>mm | s1<br>mm | s2<br>mm | t<br>mm | f<br>mm       | F<br>kN | W<br>J |
| 40x32   | 40      | 32      | 50          | 40       | 5,5     | M8      | -       | 23      | 8       | 2        | 2        | 8       | 18            | 15      | 70     |
| 50x40   | 50      | 40      | 63          | 50       | 6,5     | M10     | -       | 28      | 10      | 3        | 2        | 10      | 22            | 24      | 140    |
| 63x50   | 63      | 50      | 80          | 63       | 6,5     | M10     | -       | 28      | 12,5    | 4        | 3        | 10      | 28            | 37,5    | 280    |
| 80x63   | 80      | 63      | 100         | 80       | 9       | M12     | -       | 37      | 18      | 5        | 3        | 12      | 35            | 60      | 560    |
| 100x80  | 100     | 80      | 125         | 100      | 9       | M12     | 50      | 36      | 20      | 6        | 4        | 12      | 44            | 95      | 1120   |
| 125x100 | 125     | 100     | 160         | 125      | 11      | M16     | 63      | 36      | 25      | 6        | 4        | 16      | 55            | 150     | 2240   |
| 160x125 | 160     | 125     | 200         | 160      | 11      | M16     | 80      | 44      | 32      | 8        | 6        | 16      | 68            | 240     | 4400   |
| 200x160 | 200     | 160     | 250         | 200      | 13      | M20     | 100     | 44      | 40      | 8        | 6        | 18      | 38            | 375     | 8800   |

## ZP-QP

## ZP-1G

## ZP-2G

## ZP-1I



| Type                        |     |     | Size |     |    |     |     |    |    |      |     | Load <sup>1</sup> |        |  |
|-----------------------------|-----|-----|------|-----|----|-----|-----|----|----|------|-----|-------------------|--------|--|
| Order id.                   | D   | H   | a1   | a2  | d1 | d2  | e   | l  | s  | t    | f   | F                 | W      |  |
|                             | mm  | mm  | mm   | mm  | mm | mm  | mm  | mm | mm | mm   | mm  | kN                | J      |  |
| <b>070x070</b>              | 70  | 70  | -    | -   | -  | M12 | -   | 35 | -  | -    | 52  | 30                | 330    |  |
| <b>080x040</b>              | 80  | 40  | 110  | 80  | 13 | M12 | -   | 35 | 10 | 12,5 | 30  | 40                | 200    |  |
| <b>080x080</b> <sup>2</sup> | 80  | 80  | 110  | 80  | 13 | M12 | -   | 35 | 10 | 12,5 | 60  | 40                | 400    |  |
| <b>080x120</b>              | 80  | 120 | 100  | 80  | 13 | M12 | -   | 35 | 10 | 12,5 | 90  | 40                | 600    |  |
| <b>100x050</b>              | 100 | 50  | 125  | 100 | 13 | M12 | -   | 35 | 10 | 12,5 | 38  | 63                | 400    |  |
| <b>100x100</b>              | 100 | 100 | 125  | 100 | 13 | M12 | 50  | 35 | 10 | 12,5 | 75  | 63                | 800    |  |
| <b>100x150</b>              | 100 | 150 | 125  | 100 | 13 | M12 | 50  | 35 | 10 | 12,5 | 112 | 63                | 1200   |  |
| <b>125x063</b>              | 125 | 63  | 160  | 125 | 17 | M12 | -   | 35 | 12 | 12,5 | 47  | 100               | 750    |  |
| <b>125x125</b> <sup>2</sup> | 125 | 125 | 160  | 125 | 17 | M12 | 63  | 35 | 12 | 12,5 | 94  | 100               | 1500   |  |
| <b>125x190</b>              | 125 | 190 | 160  | 125 | 17 | M12 | 63  | 35 | 12 | 12,5 | 142 | 100               | 3000   |  |
| <b>160x080</b>              | 160 | 80  | 200  | 160 | 17 | M12 | -   | 35 | 12 | 14   | 60  | 160               | 1600   |  |
| <b>160x160</b> <sup>2</sup> | 160 | 160 | 200  | 160 | 17 | M12 | 80  | 35 | 12 | 14   | 120 | 160               | 3200   |  |
| <b>160x240</b>              | 160 | 240 | 200  | 160 | 17 | M12 | 80  | 35 | 12 | 14   | 180 | 160               | 4800   |  |
| <b>200x100</b>              | 200 | 100 | 250  | 200 | 21 | M12 | -   | 35 | 14 | 14   | 75  | 250               | 3150   |  |
| <b>200x200</b> <sup>2</sup> | 200 | 200 | 250  | 200 | 21 | M12 | 100 | 35 | 14 | 14   | 150 | 250               | 6300   |  |
| <b>200x300</b>              | 200 | 300 | 250  | 200 | 21 | M12 | 100 | 35 | 14 | 14   | 225 | 250               | 9450   |  |
| <b>250x125</b>              | 250 | 125 | 315  | 250 | 21 | M24 | -   | 80 | 15 | 25   | 94  | 400               | 6000   |  |
| <b>250x250</b>              | 250 | 250 | 315  | 250 | 21 | M24 | 125 | 80 | 15 | 25   | 188 | 400               | 12000  |  |
| <b>250x375</b>              | 250 | 375 | 315  | 250 | 21 | M24 | 125 | 80 | 15 | 25   | 280 | 400               | 18000  |  |
| <b>315x160</b>              | 315 | 160 | 400  | 315 | 21 | M24 | -   | 80 | 15 | 25   | 120 | 630               | 12000  |  |
| <b>315x315</b>              | 315 | 315 | 400  | 315 | 21 | M24 | 160 | 80 | 15 | 25   | 236 | 630               | 24000  |  |
| <b>315x475</b>              | 315 | 475 | 400  | 315 | 21 | M24 | 160 | 80 | 15 | 25   | 356 | 630               | 36000  |  |
| <b>400x200</b>              | 400 | 200 | 500  | 400 | 25 | M30 | -   | 80 | 20 | 30   | 150 | 1000              | 24000  |  |
| <b>400x400</b>              | 400 | 400 | 500  | 400 | 25 | M30 | 200 | 80 | 20 | 30   | 300 | 1000              | 48000  |  |
| <b>400x600</b>              | 400 | 600 | 500  | 400 | 25 | M30 | 200 | 80 | 20 | 30   | 450 | 1000              | 72000  |  |
| <b>500x250</b>              | 500 | 250 | 600  | 500 | 25 | -   | -   | -  | 20 | -    | 188 | 1600              | 48000  |  |
| <b>500x500</b>              | 500 | 500 | 600  | 500 | 25 | -   | -   | -  | 20 | -    | 375 | 1600              | 96000  |  |
| <b>500x750</b>              | 500 | 750 | 600  | 500 | 25 | -   | -   | -  | 20 | -    | 563 | 1600              | 144000 |  |
| <b>600x300</b>              | 600 | 300 | 730  | 600 | 25 | -   | -   | -  | 20 | -    | 225 | 2000              | 63000  |  |
| <b>600x600</b>              | 600 | 600 | 730  | 600 | 25 | -   | -   | -  | 20 | -    | 450 | 2000              | 125000 |  |
| <b>600x900</b>              | 600 | 900 | 730  | 600 | 25 | -   | -   | -  | 20 | -    | 675 | 2000              | 188000 |  |

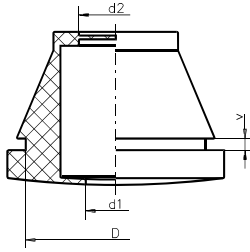
1) Werte für < 1 m/s und Federweg f = 0,75 x H / Belastungsdiagramm auf Anfrage.

2) Typen ZP-1g, ZP-2g und ZP-1I konische Ausführung.

1J = 1Nm = 0,102 mkp

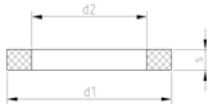


## CABLE LEAD-THROUGH



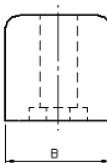
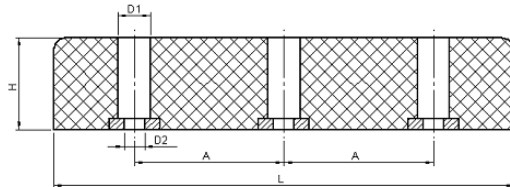
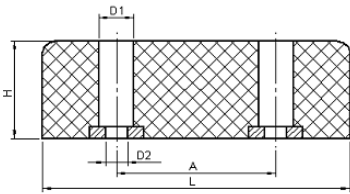
| Type  | d1 | d2  | D  | v | H  |
|-------|----|-----|----|---|----|
| 5-7   | 4  | 4,5 | 16 | 1 | 18 |
| 7-10  | 6  | 7   | 18 | 2 | 20 |
| 10-14 | 8  | 9   | 23 | 2 | 24 |
| 14-20 | 13 | 14  | 28 | 2 | 26 |
| 20-26 | 16 | 19  | 38 | 3 | 24 |
| 26-35 | 21 | 25  | 48 | 3 | 28 |

## BOLT-LOCK SEAL



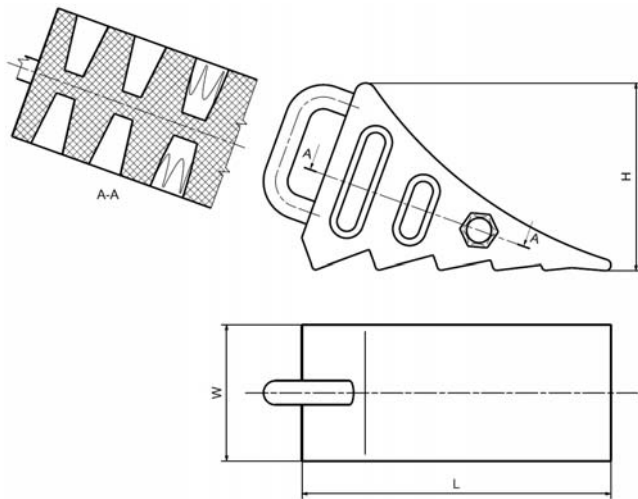
| Type    | d1  | d2   | S mm | DN(NA) |
|---------|-----|------|------|--------|
| 40/86   | 40  | 86   | 3    | 40     |
| 49/91,2 | 49  | 91,2 | 3    | 50     |
| 90/138  | 90  | 138  | 3    | 80     |
| 113/160 | 113 | 160  | 3    | 100    |
| 140/191 | 140 | 191  | 3    | 125    |
| 163/215 | 163 | 215  | 3    | 150    |
| 222/267 | 222 | 267  | 3    | 200    |
| 274/324 | 274 | 324  | 3    | 250    |
| 294/363 | 294 | 363  | 3    | 300    |
| 343/412 | 343 | 412  | 5,5  | 350    |
| 392/470 | 392 | 470  | 5,5  | 400    |
| 519/583 | 519 | 583  | 4    | 500    |
| 608/681 | 608 | 681  | 4,5  | 600    |

## TAB



| Type   | H  | L   | B  | Nr OF HOLES | A   | D1   | D2   |
|--------|----|-----|----|-------------|-----|------|------|
| TAB-1  | 15 | 125 | 40 | 2           | 60  | 19,7 | 8    |
| TAB-2  | 40 | 125 | 40 | 2           | 60  | 19,8 | 8    |
| TAB-3  | 50 | 125 | 43 | 2           | 60  | 20,3 | 8    |
| TAB-4  | 70 | 125 | 43 | 2           | 60  | 19,8 | 8    |
| TAB-5  | 60 | 200 | 52 | 2           | 120 | 26   | 10,5 |
| TAB-6  | 80 | 200 | 52 | 2           | 120 | 26   | 10,5 |
| TAB-7  | 60 | 300 | 52 | 3           | 115 | 26   | 10,5 |
| TAB-8  | 80 | 300 | 52 | 3           | 115 | 26   | 10,5 |
| TAB-9  | 60 | 400 | 52 | 3           | 165 | 26   | 10,5 |
| TAB-10 | 80 | 400 | 52 | 3           | 165 | 26   | 10,5 |
| TAB-11 | 60 | 315 | 35 | 3           | 125 | 21   | 10   |

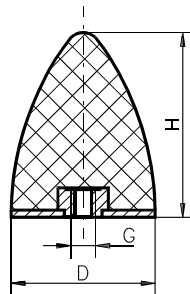
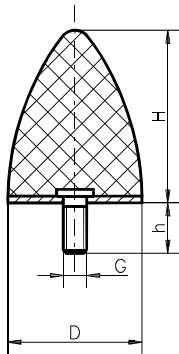
# PEG



NK70 +/- 5 Shore

| Type  | W   | H   | L   |
|-------|-----|-----|-----|
| PEG-S | 100 | 105 | 165 |
| PEG-B | 100 | 145 | 228 |

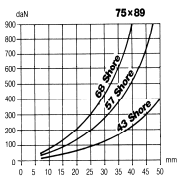
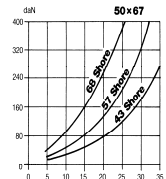
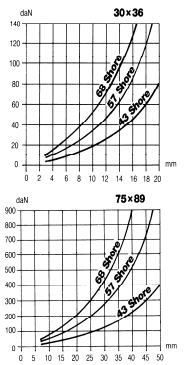
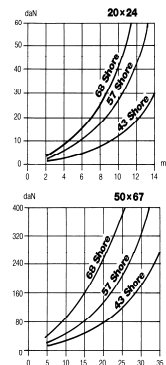
## KP-D



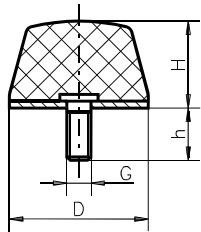
## KP-E



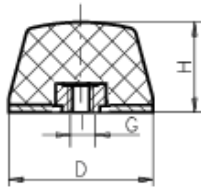
| D/H     | D   | H   | G   | h  |
|---------|-----|-----|-----|----|
| 10/10   | 10  | 10  | M5  | 12 |
| 15/22   | 15  | 22  | M6  | 18 |
| 20/15   | 20  | 15  | M6  | 10 |
| 20/24   | 20  | 24  | M6  | 18 |
| 25/16   | 25  | 16  | M6  | 18 |
| 25/20   | 25  | 20  | M6  | 18 |
| 30/30   | 30  | 30  | M8  | 20 |
| 30/36   | 30  | 36  | M8  | 20 |
| 35/40   | 35  | 40  | M8  | 23 |
| 50/50   | 50  | 50  | M10 | 28 |
| 50/58   | 50  | 58  | M10 | 28 |
| 50/61   | 50  | 61  | M8  | 28 |
| 50/67   | 50  | 67  | M8  | 33 |
| 50/68   | 50  | 68  | M10 | 38 |
| 60/40   | 60  | 40  | M10 | 28 |
| 70/58   | 70  | 58  | M12 | 32 |
| 70/60   | 70  | 60  | M12 | 37 |
| 75/89   | 75  | 89  | M12 | 37 |
| 95/80   | 95  | 80  | M16 | 41 |
| 115/136 | 115 | 136 | M16 | 41 |
| 118/77  | 118 | 77  | M16 | 41 |



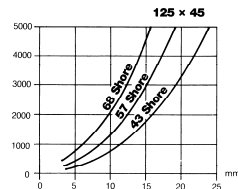
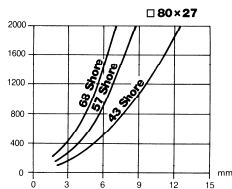
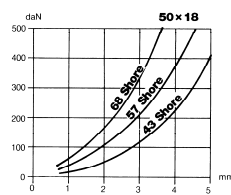
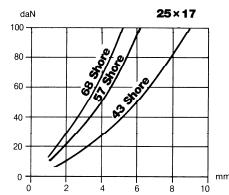
## KD



**KD-4**

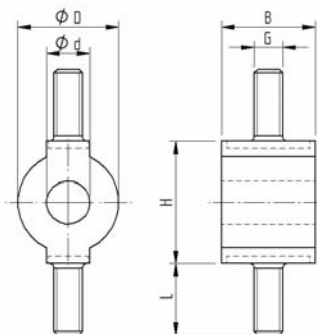


**KD-5**



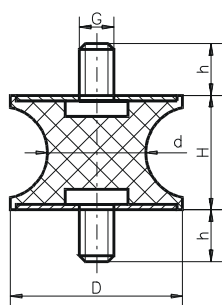
| D/H          | D   | H   | G   | H  |
|--------------|-----|-----|-----|----|
| 12/12        | 12  | 12  | M4  | 10 |
| 14/6,3       | 14  | 6,3 | M4  | 4  |
| 15/9         | 15  | 9   | M5  | 12 |
| 15/12        | 15  | 12  | M5  | 12 |
| 20/14        | 20  | 14  | M6  | 18 |
| 20/16        | 20  | 16  | M6  | 18 |
| 20/17        | 20  | 17  | M6  | 18 |
| 22/8         | 22  | 8   | M6  | 18 |
| 22/12        | 22  | 12  | M6  | 18 |
| 25/12        | 25  | 12  | M6  | 18 |
| 25/14        | 25  | 14  | M4  | 10 |
| 25/17        | 25  | 17  | M6  | 18 |
| 32/22        | 32  | 22  | M8  | 23 |
| 35/40 Ballig | 35  | 40  | M8  | 23 |
| 38/35        | 38  | 35  | M10 | 28 |
| 43/35        | 43  | 35  | M10 | 28 |
| 43/50        | 43  | 50  | M10 | 28 |
| 45/21        | 45  | 21  | M8  | 46 |
| 50/18        | 50  | 18  | M10 | 28 |
| 50/20        | 50  | 20  | M10 | 28 |
| □50/20       | □50 | 20  | M10 | 28 |
| 50/50        | 50  | 50  | M10 | 28 |
| 60/40        | 60  | 40  | M10 | 28 |
| 70/25        | 70  | 25  | M12 | 37 |
| □80/27       | □80 | 27  | M12 | 37 |
| 125/45       | 125 | 45  | M16 | 45 |

## O-BUFFER

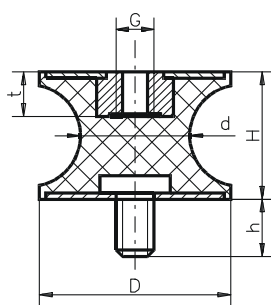


| D/H       | D    | H    | B   | d   | G    | h    | R    |
|-----------|------|------|-----|-----|------|------|------|
| 10,5/12,5 | 10,5 | 12,5 | 9,5 | 5,6 | M4   | 10   | 5,25 |
| 14/17     | 14   | 17   | 13  | 6   | M4   | 10   | 8,5  |
| 25/30     | 25   | 30   | 20  | 12  | M5/5 | 14/6 | 12,5 |
| 36/40     | 36   | 40   | 26  | 17  | M10  | 20   | 18   |

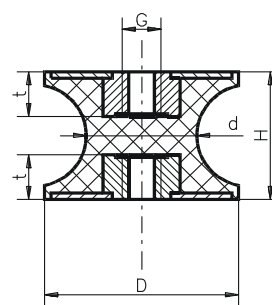
### TP1



### TP2

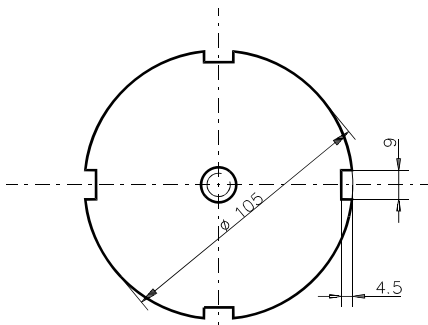


### TP3



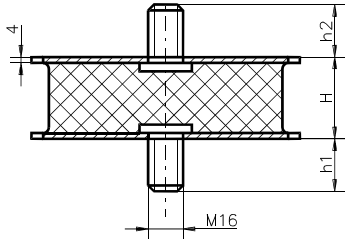
| D/d-H      | D   | d    | H  | G   | h  | t  |
|------------|-----|------|----|-----|----|----|
| 10/4,5-8   | 10  | 4,5  | 8  | M3  | 6  | 3  |
| 10/8-10    | 10  | 8    | 10 | M4  | 10 | 4  |
| 15/8,5-15  | 15  | 8,5  | 15 | M4  | 10 | 4  |
| 15/12-15   | 15  | 12   | 15 | M4  | 10 | 4  |
| 20/12-30   | 20  | 12   | 30 | M6  | 18 | 6  |
| 20/14-15   | 20  | 14   | 15 | M6  | 18 | 6  |
| 20/14-19   | 20  | 14   | 19 | M4  | 10 | 4  |
| 20/14-30   | 20  | 14   | 30 | M4  | 10 | 4  |
| 20/16-20   | 20  | 16   | 20 | M6  | 18 | 6  |
| 21/16-22   | 21  | 16   | 22 | M6  | 18 | 6  |
| 25/18-20   | 25  | 18   | 20 | M8  | 23 | 8  |
| 25/20-20   | 25  | 20   | 20 | M6  | 10 | 6  |
| 30/22-20   | 30  | 22   | 20 | M8  | 23 | 8  |
| 30/25-20   | 30  | 25   | 20 | M8  | 23 | 8  |
| 30/18-25   | 30  | 18   | 25 | M8  | 20 | 6  |
| 30/19,5-41 | 30  | 19,5 | 41 | M8  | 20 | 8  |
| 35/25-34   | 35  | 25   | 34 | M8  | 20 | 8  |
| 35/31-15   | 35  | 31   | 15 | M8  | 20 | 8  |
| 40/25-30   | 40  | 25   | 30 | M8  | 23 | 8  |
| 40/33-30   | 40  | 33   | 30 | M8  | 23 | 8  |
| 40/20-50   | 40  | 20   | 50 | M8  | 23 | 8  |
| 40/33-30   | 40  | 33   | 30 | M8  | 23 | 8  |
| 50/35-50   | 50  | 35   | 50 | M10 | 28 | 10 |
| 50/42-30   | 50  | 42   | 30 | M10 | 28 | 10 |
| 50/46-15   | 50  | 46   | 15 | M10 | 28 | 10 |
| 55/44-45   | 55  | 44   | 45 | M8  | 28 | 8  |
| 57/25-44   | 57  | 25   | 44 | M10 | 28 | 10 |
| 57/44-45   | 57  | 44   | 45 | M10 | 28 | 10 |
| 57/25-45   | 57  | 25   | 45 | M8  | 20 | 8  |
| 60/49-60   | 60  | 49   | 60 | M10 | 28 | 10 |
| 70/45-53   | 70  | 45   | 53 | M12 | 28 | 12 |
| 72/64-53   | 72  | 64   | 53 | M12 | 37 | 12 |
| 75/60-40   | 75  | 60   | 40 | M12 | 37 | 12 |
| 95/80-75   | 95  | 80   | 75 | M16 | 41 | 16 |
| 180/148-75 | 180 | 148  | 75 | M20 | 34 | 20 |
| 180/150-75 | 180 | 150  | 75 | M20 | 45 | 20 |



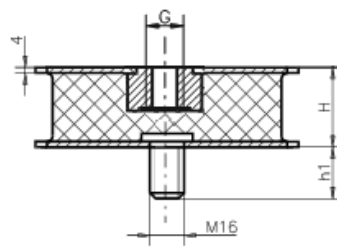


## KR

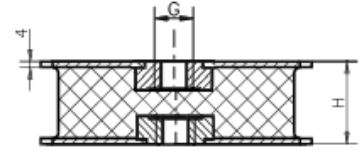
| Type | D   | H  | h1 | h2 |
|------|-----|----|----|----|
| KR-1 | 105 | 55 | 30 | 30 |
| KR-2 | 105 | 40 | 30 | 25 |



KR-A

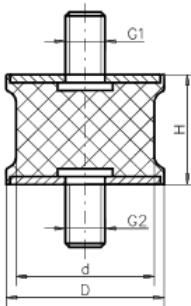


KR-B

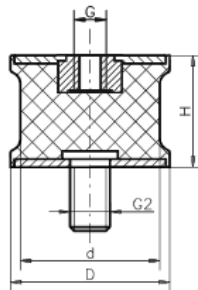


KR-C

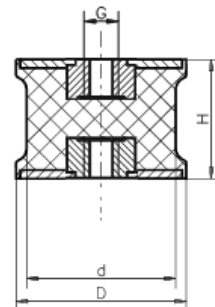
## SP-1



## SP-2

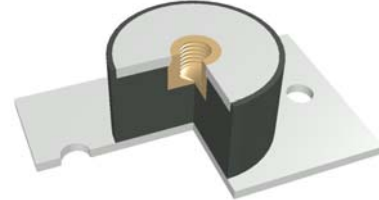
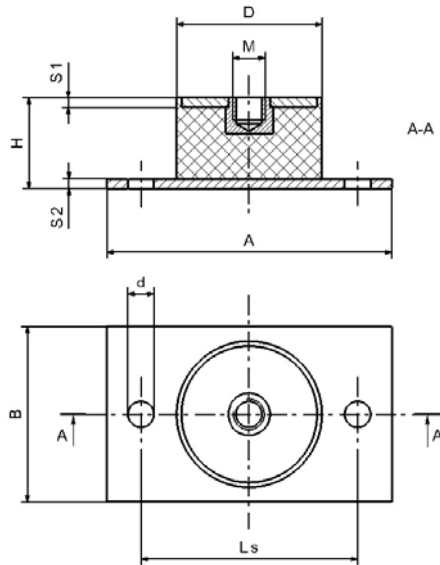


## SP-3



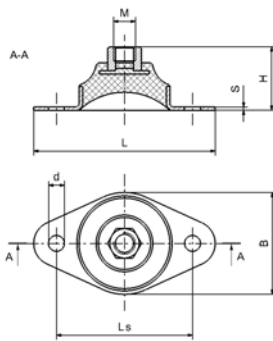
| D/d-H     | D   | d  | H  | G1     | G2     |
|-----------|-----|----|----|--------|--------|
| 20/15-30  | 20  | 15 | 30 | M6x18  | M6x18  |
| 20/15-40  | 20  | 15 | 40 | M6x18  | M6x18  |
| 25/22-20  | 25  | 22 | 20 | M8x10  | M8x18  |
| 40/35-28  | 40  | 35 | 28 | M8x23  | M8x23  |
| 40/37-30  | 40  | 37 | 30 | M8x23  | M8x23  |
| 46/40-25  | 46  | 40 | 25 | M10x28 | M10x28 |
| 50/40-30  | 50  | 40 | 30 | M10x28 | M10x28 |
| 75/70-40  | 75  | 70 | 40 | M12x37 | M12x37 |
| 100/95-75 | 100 | 95 | 75 | M16x45 | M16x45 |

## PLO

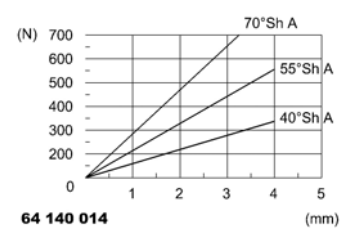
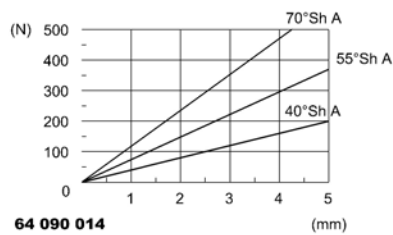
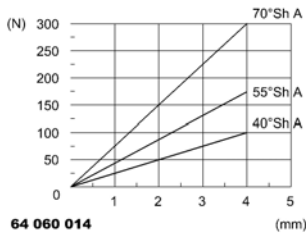


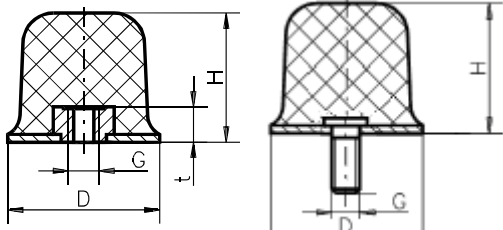
| Type  | A   | B   | Ls    | H  | D   | d      | S1/S2 | M   | Sh A | Load      |           |          |
|-------|-----|-----|-------|----|-----|--------|-------|-----|------|-----------|-----------|----------|
|       |     |     |       |    |     |        |       |     |      | S max (N) | F max (N) | C (N/mm) |
| PLO-1 | 80  | 30  | 60    | 33 | 25  | 9      | 3/1,5 | M6  | 43   | 4         | 160       | 40       |
| PLO-2 | 80  | 30  | 60    | 33 | 30  | 9      | 3/1,5 | M8  | 55   | 4         | 450       | 112      |
| PLO-3 | 100 | 60  | 75    | 33 | 50  | 9      | 3/3   | M10 | 55   | 4         | 1150      | 387      |
| PLO-4 | 130 | 80  | 105   | 44 | 75  | 11     | 4/5   | M12 | 68   | 5,5       | 6100      | 1110     |
| PLO-5 | 120 | 120 | 95/95 | 44 | 100 | 4x12,5 | 4/5   | M16 | 55   | 5,5       | 8500      | 1545     |

## HUT-ELEMENT



| Type       | B  | H  | L   | M   | S | Ls  | d  |
|------------|----|----|-----|-----|---|-----|----|
| 64 060 014 | 35 | 20 | 60  | M6  | 2 | 45  | 6  |
| 64 090 014 | 50 | 32 | 90  | M10 | 2 | 70  | 9  |
| 64 140 014 | 80 | 50 | 140 | M16 | 3 | 105 | 13 |



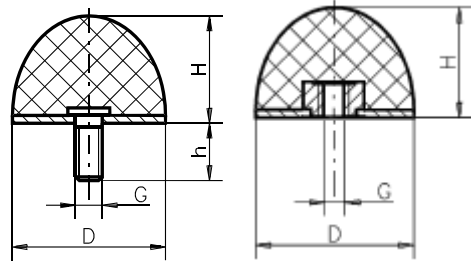


KE-5

KE-4

## KE

| Type   | D   | H  | G   | H / t |
|--------|-----|----|-----|-------|
| 50/35  | 50  | 35 | M10 | 10    |
| 80/60  | 80  | 60 | M12 | 37    |
| 125/90 | 125 | 90 | M16 | 41    |

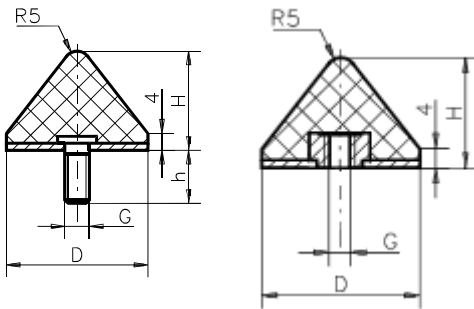


KG-4

KG-5

## KG

| D/H   | D  | H  | G  | h  |
|-------|----|----|----|----|
| 25/13 | 25 | 13 | M6 | 10 |
| 25/15 | 25 | 15 | M6 | 18 |
| 30/26 | 30 | 26 | M8 | 20 |
| 50/30 | 50 | 30 | M8 | 28 |



KK-4

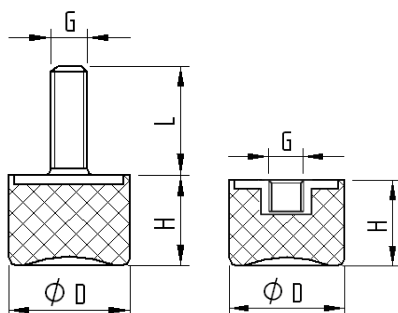
KK-5

## KK

| D/H   | D  | H  | G   | h  |
|-------|----|----|-----|----|
| 20/20 | 20 | 20 | M6  | 18 |
| 24/17 | 24 | 17 | M6  | 18 |
| 25/16 | 25 | 16 | M8  | 25 |
| 25/18 | 25 | 18 | M8  | 25 |
| 35/17 | 35 | 17 | M8  | 25 |
| 40/24 | 40 | 24 | M8  | 28 |
| 40/30 | 40 | 30 | M8  | 28 |
| 50/28 | 50 | 28 | M8  | 28 |
| 50/45 | 50 | 45 | M10 | 35 |
| 60/45 | 60 | 45 | M10 | 28 |
| 85/65 | 85 | 65 | M12 | 37 |



## DS

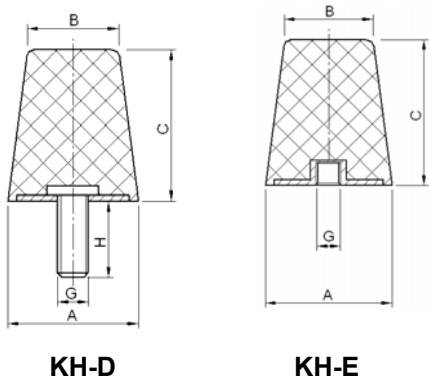


DS-4

DS-5

| Type    | D  | H    | G   | h  |
|---------|----|------|-----|----|
| 15/14   | 15 | 14   | M4  | 13 |
| 20/23,5 | 20 | 23,5 | M6  | 18 |
| 25/18,5 | 25 | 18,5 | M6  | 18 |
| 30/28,5 | 30 | 28,5 | M8  | 20 |
| 40/28   | 40 | 28   | M8  | 10 |
| 50/28   | 50 | 28   | M10 | 33 |
| 70/43   | 70 | 43   | M10 | 28 |
| 75/37   | 75 | 37   | M12 | 37 |



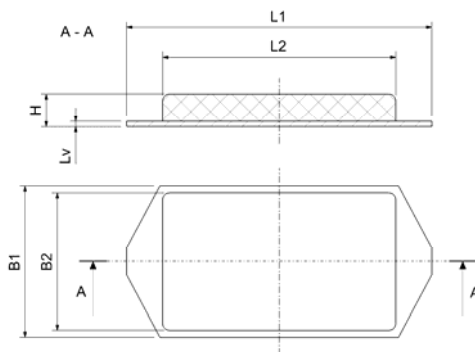


## KH

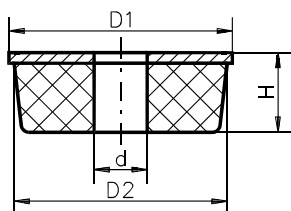
| Type        | A  | B    | C  | M Gxh   |
|-------------|----|------|----|---------|
| <b>KH-1</b> | 43 | 30   | 50 | M10x25  |
| <b>KH-2</b> | 43 | 30   | 35 | M10x27  |
| <b>KH-3</b> | 38 | 30   | 35 | M10x27  |
| <b>KH-4</b> | 63 | 57,5 | 50 | M 10x31 |



## KN



|             | L1  | L2  | B1  | B2 | H  | Lv |
|-------------|-----|-----|-----|----|----|----|
| <b>KN-1</b> | 148 | 100 | 98  | 98 | 20 | 4  |
| <b>KN-2</b> | 208 | 160 | 98  | 98 | 20 | 4  |
| <b>KN-3</b> | 600 | 550 | 105 | 95 | 20 | 4  |



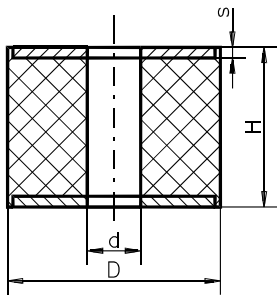
## RB

| Type     | D1  | D2  | d  | H  |
|----------|-----|-----|----|----|
| <b>1</b> | 42  | 40  | 18 | 23 |
| <b>2</b> | 62  | 60  | 21 | 33 |
| <b>3</b> | 72  | 70  | 21 | 33 |
| <b>4</b> | 82  | 80  | 25 | 40 |
| <b>5</b> | 102 | 100 | 32 | 54 |
| <b>6</b> | 122 | 120 | 38 | 46 |



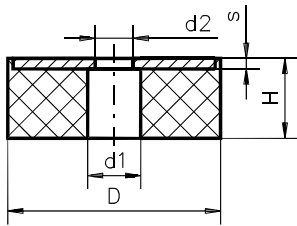


## GH



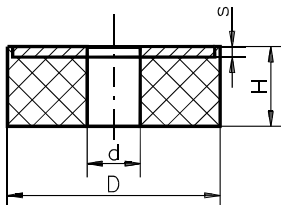
| D/d-H      | D   | d  | H   | s |
|------------|-----|----|-----|---|
| 15/6-25    | 15  | 6  | 25  | 2 |
| 20/6-25    | 20  | 6  | 25  | 2 |
| 40/13-20   | 40  | 13 | 20  | 2 |
| 40/13-30   | 40  | 13 | 30  | 2 |
| 40/13-40   | 40  | 13 | 40  | 2 |
| 50/17-20   | 50  | 13 | 20  | 3 |
| 50/17-40   | 50  | 17 | 40  | 3 |
| 50/17-50   | 50  | 17 | 50  | 3 |
| 50/21-15   | 50  | 21 | 15  | 3 |
| 50/21-30   | 50  | 21 | 30  | 3 |
| 60/21-50   | 60  | 21 | 50  | 4 |
| 75/25-55   | 75  | 25 | 55  | 3 |
| 80/21-30   | 80  | 21 | 30  | 3 |
| 100/21-40  | 100 | 21 | 40  | 4 |
| 100/31-40  | 100 | 31 | 40  | 4 |
| 100/33-75  | 100 | 33 | 75  | 5 |
| 120/41-40  | 120 | 41 | 40  | 5 |
| 120/51-40  | 120 | 51 | 40  | 5 |
| 150/51-100 | 150 | 51 | 100 | 6 |
| 200/32-100 | 200 | 32 | 100 | 8 |
| 200/61-100 | 200 | 61 | 100 | 8 |

## GK



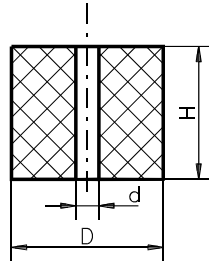
| D/H    | D   | H  | d1 | d2 | s |
|--------|-----|----|----|----|---|
| 30/16  | 30  | 16 | 16 | 9  | 3 |
| 40/16  | 40  | 16 | 16 | 9  | 3 |
| 40/20  | 40  | 20 | 17 | 9  | 3 |
| 50/16  | 50  | 16 | 20 | 11 | 3 |
| 50/20  | 50  | 20 | 22 | 11 | 3 |
| 60/18  | 60  | 18 | 25 | 25 | 3 |
| 60/20  | 60  | 20 | 25 | 11 | 4 |
| 75/25  | 75  | 25 | 30 | 13 | 6 |
| 80/20  | 80  | 20 | 32 | 13 | 4 |
| 100/25 | 100 | 25 | 40 | 13 | 6 |
| 100/30 | 100 | 30 | 60 | 33 | 6 |
| 125/25 | 125 | 25 | 50 | 17 | 6 |

## IS



| D/d-H     | D   | d  | H  | s |
|-----------|-----|----|----|---|
| 40/10-10  | 40  | 10 | 10 | 2 |
| 62/14-6   | 62  | 14 | 6  | 3 |
| 80/21-30  | 80  | 21 | 30 | 2 |
| 100/21-30 | 100 | 21 | 30 | 4 |
| 100/21-40 | 100 | 21 | 40 | 4 |
| 100/25-40 | 100 | 25 | 40 | 4 |
| 100/56-19 | 100 | 56 | 19 | 3 |
| 100/60-30 | 100 | 60 | 30 | 4 |
| 120/21-30 | 120 | 21 | 30 | 4 |
| 120/25-40 | 120 | 25 | 40 | 4 |
| 150/32-40 | 150 | 32 | 40 | 4 |

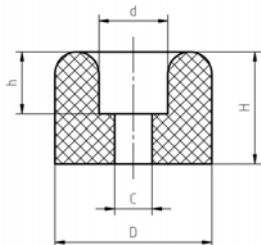
# GP



| D/d-H      | D    | d    | H   |
|------------|------|------|-----|
| 8/3-3      | 8,5  | 3,2  | 3,5 |
| 13/6,5-12  | 13   | 6,5  | 12  |
| 17,5/9-16  | 17,5 | 9    | 16  |
| 19/13-19   | 19   | 13   | 19  |
| 20/8,5-15  | 20   | 8,5  | 15  |
| 25/8-25    | 25   | 8,5  | 25  |
| 25/10,5-15 | 25   | 10,5 | 15  |
| 25/10,5-25 | 25   | 10,5 | 25  |
| 28/10,5-50 | 28   | 10,5 | 50  |
| 28/8-16    | 28   | 8    | 16  |
| 30/16-40   | 30   | 16   | 40  |
| 32/13-32   | 32   | 13,5 | 32  |
| 40/0,9-30  | 40   | 0,9  | 30  |
| 40/12-25   | 40   | 12   | 25  |
| 40/12-35   | 40   | 12   | 35  |
| 40/12-65   | 40   | 12   | 65  |
| 40/13-30   | 40   | 13   | 30  |
| 40/13,5-32 | 40   | 13,5 | 32  |
| 40/13-40   | 40   | 13,5 | 40  |
| 40/13-50   | 40   | 13,5 | 50  |
| 40/13,5-40 | 40   | 13,5 | 40  |
| 40/17-30   | 40   | 17   | 30  |
| 47/20-50   | 47   | 20   | 50  |
| 48/17-100  | 48   | 17   | 100 |
| 50/17-25   | 50   | 17   | 25  |
| 50/17-40   | 50   | 17   | 40  |
| 50/10-45   | 50   | 10   | 45  |
| 50/14-80   | 50   | 14   | 80  |
| 50/17-32   | 50   | 17   | 32  |
| 50/17-50   | 50   | 17   | 50  |
| 50/17-63   | 50   | 17   | 63  |
| 50/17-80   | 50   | 17   | 80  |
| 58/17-100  | 58   | 17   | 100 |
| 50/20-38   | 50   | 20   | 38  |
| 50/24-50   | 50   | 24   | 50  |

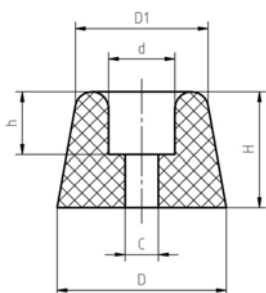
| D/d-H       | D   | d    | H   |
|-------------|-----|------|-----|
| 50/24,8-50  | 50  | 24,8 | 50  |
| 53/32,5-100 | 53  | 32,5 | 100 |
| 60/20-40    | 60  | 20   | 40  |
| 70/40-40    | 70  | 40   | 40  |
| 75/18-40    | 75  | 18   | 40  |
| 80/15-50    | 80  | 15   | 50  |
| 80/20-27    | 80  | 20   | 27  |
| 80/20-40    | 80  | 20   | 40  |
| 80/21-30    | 80  | 21   | 30  |
| 80/25-40    | 80  | 25   | 40  |
| 80/25-82    | 80  | 25   | 82  |
| 80/30-35    | 80  | 30   | 35  |
| 80/40-30    | 80  | 40   | 30  |
| 80/21-100   | 80  | 21   | 100 |
| 90/30-45    | 90  | 30   | 45  |
| 100/21-40   | 100 | 21   | 40  |
| 100/25-40   | 100 | 25   | 40  |
| 100/25-70   | 100 | 25   | 70  |
| 100/26-40   | 100 | 26   | 40  |
| 100/30-35   | 100 | 30   | 35  |
| 100/33-40   | 100 | 33   | 40  |
| 100/33-75   | 100 | 33   | 75  |
| 100/40-70   | 100 | 40   | 70  |
| 100/70-40   | 100 | 70   | 40  |
| 120/25-40   | 120 | 25   | 40  |
| 120/40-40   | 120 | 40   | 40  |
| 120/50-40   | 120 | 50   | 40  |
| 125/35-125  | 125 | 35   | 125 |
| 125/50-125  | 125 | 50   | 125 |
| 150/51-100  | 150 | 51   | 100 |
| 150/45-180  | 150 | 45   | 180 |
| 160/33-160  | 160 | 33   | 160 |
| 200/61-100  | 200 | 61   | 100 |
| 200/33-200  | 200 | 33   | 200 |
| 250/60-200  | 250 | 60   | 200 |

## DBH



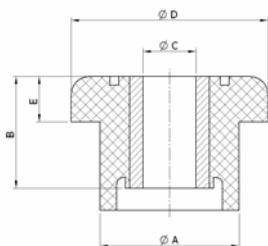
| D/H   | D  | H  | C | d  | h  |
|-------|----|----|---|----|----|
| 26/29 | 26 | 29 | 5 | 10 | 4  |
| 28/25 | 28 | 25 | 6 | 14 | 15 |
| 30/32 | 30 | 32 | 6 | 13 | 20 |
| 40/25 | 40 | 25 | 6 | 18 | 15 |
| 40/25 | 40 | 25 | 7 | 20 | 8  |
| 40/31 | 40 | 31 | 6 | 18 | 21 |
| 40/35 | 40 | 35 | 7 | 20 | 8  |
| 40/46 | 40 | 46 | 6 | 16 | 32 |

## DBF

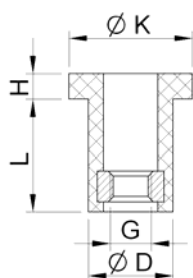


| D/H   | D  | H  | D1 | C   | d | h |
|-------|----|----|----|-----|---|---|
| 20/10 | 20 | 10 | 16 | 5   | 8 | 6 |
| 25/10 | 25 | 10 | 20 | 4,5 | 7 | 6 |

## T-BLOCK



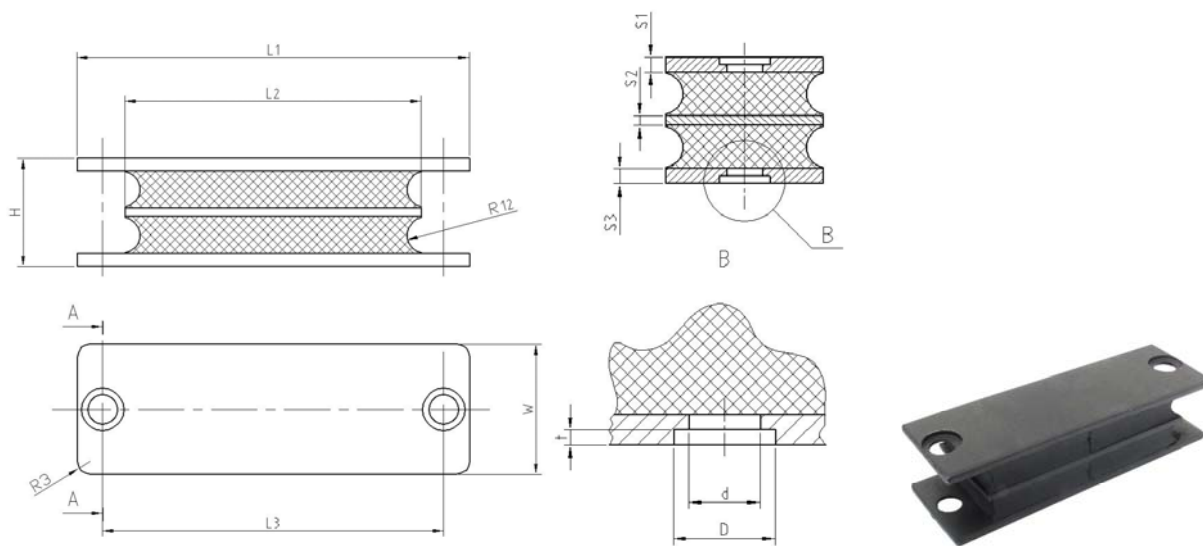
| Type | A    | B    | C  | D    | E    |
|------|------|------|----|------|------|
| TB-1 | 20,6 | 17,5 | 10 | 27,7 | 5,6  |
| TB-2 | 31,5 | 25,4 | 13 | 44,5 | 10,4 |
| TB-3 | 34,3 | 35   | 13 | 50,8 | 13,5 |
| TB-4 | 41,1 | 44,5 | 16 | 63,5 | 15,7 |
| TB-5 | 38   | 23   | 16 | 64   | 16   |
| TB-6 | 56,6 | 50,8 | 20 | 95   | 25,4 |



## T-FLEX

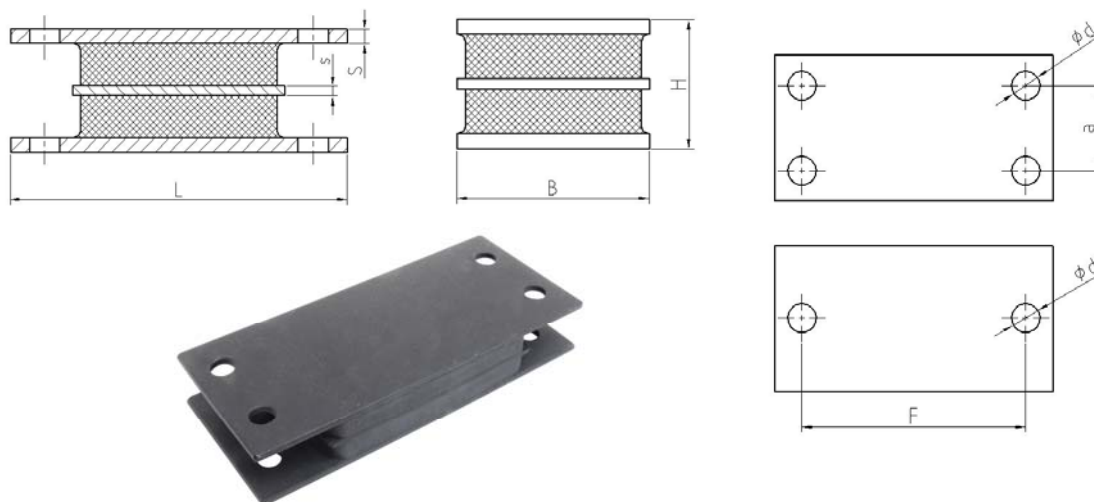
| Type | D    | K    | L    | H   | G  |
|------|------|------|------|-----|----|
| TF-1 | 6,6  | 8,8  | 8,8  | 3   | M3 |
| TF-2 | 8,5  | 12   | 12   | 3,2 | M4 |
| TF-3 | 10,2 | 15   | 14,5 | 3,5 | M5 |
| TF-4 | 12   | 17,8 | 17   | 4,3 | M6 |
| TF-5 | 16   | 23,6 | 21,8 | 5,3 | M8 |

## GMR SANDWICH



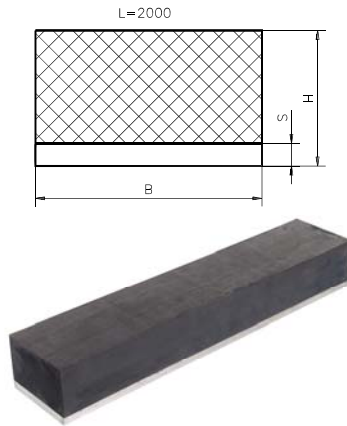
| Type          | L1  | L2   | L3  | H  | D  | d  | w  |
|---------------|-----|------|-----|----|----|----|----|
| <b>GMRS-1</b> | 108 | 63,5 | 89  | 43 | 20 | 13 | 57 |
| <b>GMRS-2</b> | 168 | 127  | 146 | 43 | 20 | 13 | 57 |

## RMR SANDWICH

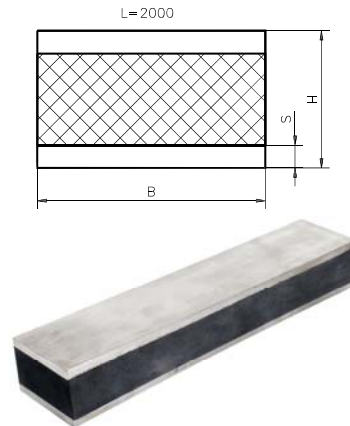


| Type         | H  | B   | L   | a  | F   | d  | S | S |
|--------------|----|-----|-----|----|-----|----|---|---|
| <b>R-100</b> | 43 | 57  | 108 | -  | 89  | 11 | 5 | 3 |
| <b>R-600</b> | 43 | 108 | 251 | 51 | 210 | 13 | 5 | 3 |

### GS-M1



### GS-M2



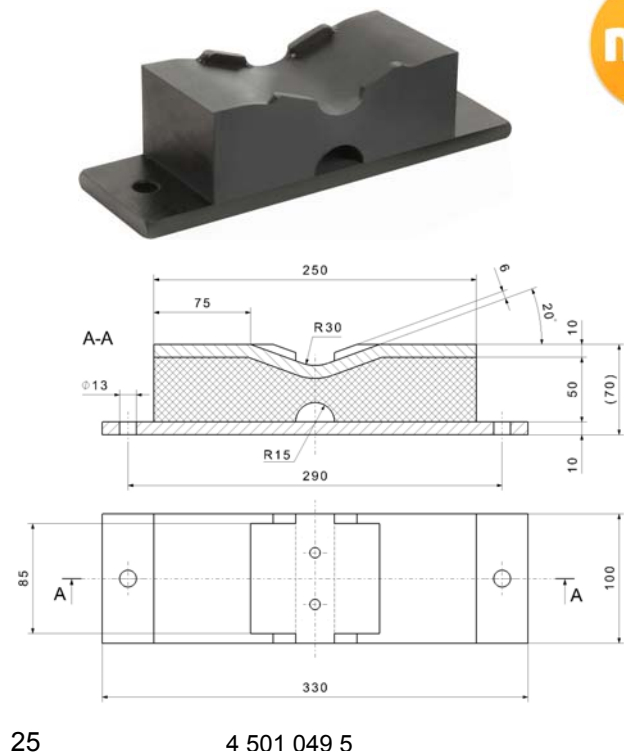
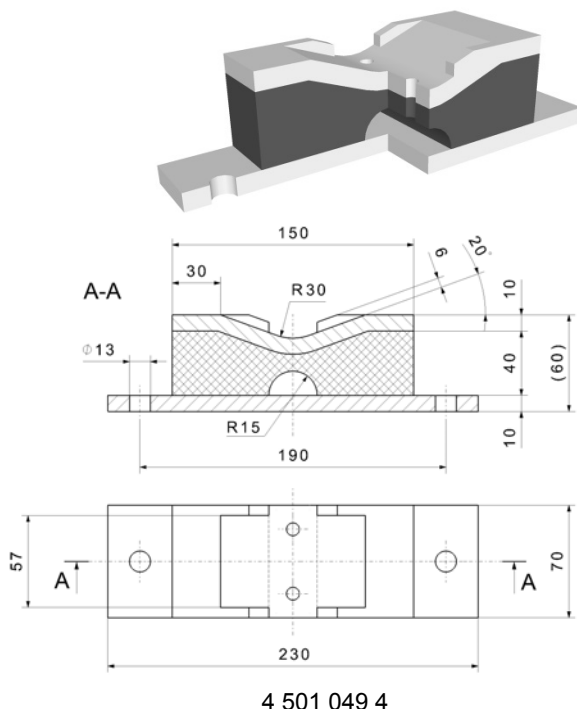
| B/H    | B   | H  | S |    |    |
|--------|-----|----|---|----|----|
|        |     |    | 5 | 10 | 15 |
| 10/30  | 10  | 30 | ○ | ○  | ●  |
| 20/25  | 20  | 25 | ● | ●  | ○  |
| 20/30  | 20  | 30 | ● | ○  | ○  |
| 25/25  | 25  | 25 | ● | ●  | ○  |
| 25/30  | 25  | 30 | ● | ○  | ○  |
| 30/20  | 30  | 20 | ● | ●  | ○  |
| 30/30  | 30  | 30 | ● | ●  | ○  |
| 35/15  | 35  | 15 | ● | ●  | ○  |
| 35/50  | 35  | 50 | ○ | ●  | ○  |
| 40/20  | 40  | 20 | ● | ●  | ○  |
| 40/30  | 40  | 30 | ● | ●  | ○  |
| 40/35  | 40  | 35 | ● | ●  | ○  |
| 40/40  | 40  | 40 | ● | ●  | ○  |
| 40/45  | 40  | 45 | ○ | ●  | ○  |
| 40/50  | 40  | 50 | ○ | ○  | ○  |
| 50/10  | 50  | 10 | ● | ○  | ○  |
| 50/15  | 50  | 15 | ○ | ○  | ●  |
| 50/20  | 50  | 20 | ● | ●  | ○  |
| 50/25  | 50  | 25 | ● | ●  | ○  |
| 50/30  | 50  | 30 | ● | ●  | ○  |
| 50/35  | 50  | 35 | ● | ●  | ○  |
| 50/40  | 50  | 40 | ● | ●  | ○  |
| 50/45  | 50  | 45 | ● | ●  | ○  |
| 50/50  | 50  | 50 | ● | ●  | ○  |
| 50/55  | 50  | 55 | ○ | ●  | ○  |
| 50/60  | 50  | 60 | ● | ●  | ●  |
| 50/70  | 50  | 70 | ● | ●  | ○  |
| 60/20  | 60  | 20 | ● | ●  | ○  |
| 60/30  | 60  | 30 | ● | ●  | ○  |
| 60/35  | 60  | 35 | ● | ●  | ●  |
| 60/40  | 60  | 40 | ● | ●  | ○  |
| 60/45  | 60  | 45 | ○ | ●  | ○  |
| 60/50  | 60  | 50 | ● | ●  | ○  |
| 60/55  | 60  | 55 | ● | ○  | ○  |
| 60/60  | 60  | 60 | ● | ●  | ●  |
| 120/45 | 120 | 45 | ○ | ●  | ●  |
| 120/50 | 120 | 50 | ○ | ●  | ●  |
| 120/60 | 120 | 60 | ○ | ●  | ●  |
| 120/70 | 120 | 70 | ○ | ●  | ●  |
| 120/80 | 120 | 80 | ○ | ●  | ●  |
| 150/30 | 150 | 30 | ○ | ●  | ○  |
| 150/40 | 150 | 40 | ○ | ○  | ●  |
| 150/50 | 150 | 50 | ○ | ●  | ●  |
| 150/60 | 150 | 60 | ○ | ●  | ●  |
| 150/70 | 150 | 70 | ○ | ●  | ●  |

| B/H     | B   | H   | S |    |    |
|---------|-----|-----|---|----|----|
|         |     |     | 5 | 10 | 15 |
| 60/70   | 60  | 70  | ● | ●  | ○  |
| 60/80   | 60  | 80  | ● | ●  | ○  |
| 70/30   | 70  | 30  | ● | ●  | ○  |
| 70/40   | 70  | 40  | ● | ●  | ○  |
| 70/45   | 70  | 45  | ● | ●  | ○  |
| 70/50   | 70  | 50  | ● | ●  | ○  |
| 70/60   | 70  | 60  | ● | ●  | ○  |
| 70/70   | 70  | 70  | ● | ●  | ○  |
| 70/80   | 70  | 80  | ● | ●  | ○  |
| 70/55   | 70  | 55  | ○ | ●  | ○  |
| 75/40   | 75  | 40  | ○ | ●  | ○  |
| 75/55   | 75  | 55  | ○ | ●  | ○  |
| 80/20   | 80  | 20  | ● | ○  | ○  |
| 80/40   | 80  | 40  | ● | ●  | ○  |
| 80/45   | 80  | 45  | ● | ●  | ○  |
| 80/60   | 80  | 60  | ● | ●  | ○  |
| 80/70   | 80  | 70  | ○ | ●  | ○  |
| 80/80   | 80  | 80  | ● | ●  | ●  |
| 90/45   | 90  | 45  | ○ | ●  | ●  |
| 100/12  | 100 | 12  | ● | ○  | ○  |
| 10/20   | 100 | 20  | ● | ○  | ○  |
| 100/30  | 100 | 30  | ○ | ●  | ○  |
| 100/40  | 100 | 40  | ● | ●  | ●  |
| 100/45  | 100 | 45  | ○ | ○  | ●  |
| 100/50  | 100 | 50  | ○ | ●  | ●  |
| 100*55  | 100 | 55  | ○ | ●  | ●  |
| 100/60  | 100 | 60  | ○ | ●  | ●  |
| 100/65  | 100 | 65  | ○ | ○  | ●  |
| 100/70  | 100 | 70  | ○ | ●  | ●  |
| 100/75  | 100 | 75  | ○ | ○  | ●  |
| 100/80  | 100 | 80  | ● | ●  | ●  |
| 100/90  | 100 | 90  | ○ | ●  | ●  |
| 100/100 | 100 | 100 | ○ | ●  | ●  |
| 110/40  | 110 | 40  | ○ | ○  | ●  |
| 150/75  | 150 | 75  | ○ | ○  | ●  |
| 150/80  | 150 | 80  | ○ | ●  | ●  |
| 150/90  | 150 | 90  | ○ | ●  | ●  |
| 150/100 | 150 | 100 | ○ | ●  | ●  |
| 200/30  | 200 | 30  | ○ | ●  | ○  |
| 200/60  | 200 | 60  | ○ | ●  | ●  |
| 200/70  | 200 | 70  | ○ | ○  | ●  |
| 200/80  | 200 | 80  | ○ | ●  | ○  |
| 200/100 | 200 | 100 | ○ | ●  | ○  |

| GS-M2 |    |      |    |        |          |       |        | LOAD DATA |     |      |    |        |          |        |        |
|-------|----|------|----|--------|----------|-------|--------|-----------|-----|------|----|--------|----------|--------|--------|
| B     | H  | L    | s  | f [mm] | Fv [daN] |       |        | B         | H   | L    | s  | f [mm] | Fv [daN] |        |        |
|       |    |      |    |        | 43Sh     | 57Sh  | 68Sh   |           |     |      |    |        | 43Sh     | 57Sh   | 68Sh   |
| 25    | 25 | 2000 | 5  | 0,75   | 16       | 35    | 74     | 70        | 60  | 2000 | 10 | 2      | 130      | 278    | 592    |
|       |    |      |    | 1,5    | 34       | 72    | 154    |           |     |      |    | 4      | 273      | 580    | 1 235  |
|       |    |      |    | 2,25   | 53       | 113   | 241    |           |     |      |    | 6      | 430      | 912    | 1 938  |
| 25    | 30 | 200  | 5  | 1      | 14       | 30    | 66     | 80        | 45  | 2000 | 10 | 1,25   | 318      | 619    | 1 265  |
|       |    |      |    | 2      | 28       | 63    | 136    |           |     |      |    | 2,5    | 678      | 1 315  | 2 680  |
|       |    |      |    | 3      | 44       | 98    | 212    |           |     |      |    | 3,75   | 1 090    | 2 105  | 4 280  |
| 30    | 30 | 2000 | 5  | 1      | 22       | 47    | 101    | 80        | 60  | 2000 | 10 | 2      | 190      | 400    | 838    |
|       |    |      |    | 2      | 45       | 98    | 210    |           |     |      |    | 4      | 400      | 830    | 1 750  |
|       |    |      |    | 3      | 71       | 153   | 328    |           |     |      |    | 6      | 630      | 1 310  | 2 760  |
| 40    | 20 | 2000 | 5  | 0,5    | 109      | 207   | 415    | 80        | 80  | 2000 | 10 | 3      | 143      | 317    | 685    |
|       |    |      |    | 1      | 234      | 441   | 885    |           |     |      |    | 6      | 298      | 628    | 1 420  |
|       |    |      |    | 1,5    | 378      | 710   | 1 421  |           |     |      |    | 9      | 468      | 1 027  | 2 220  |
| 50    | 40 | 2000 | 5  | 1,5    | 64       | 138   | 295    | 100       | 60  | 2000 | 10 | 2      | 368      | 745    | 1 550  |
|       |    |      |    | 3      | 134      | 287   | 614    |           |     |      |    | 4      | 780      | 1 570  | 3 262  |
|       |    |      |    | 4,5    | 312      | 451   | 962    |           |     |      |    | 6      | 1 245    | 2 500  | 5 170  |
| 50    | 50 | 2000 | 5  | 2      | 54       | 121   | 262    | 100       | 80  | 2000 | 10 | 3      | 256      | 550    | 1 180  |
|       |    |      |    | 4      | 113      | 250   | 543    |           |     |      |    | 6      | 536      | 1 150  | 2 455  |
|       |    |      |    | 6      | 177      | 390   | 846    |           |     |      |    | 9      | 845      | 1 800  | 3 845  |
| 60    | 30 | 2000 | 10 | 0,5    | 479      | 867   | 1 705  | 120       | 45  | 2000 | 15 | 0,75   | 3 215    | 5 725  | 11 140 |
|       |    |      |    | 1      | 1 032    | 1 866 | 3 665  |           |     |      |    | 1,5    | 6 950    | 12 360 | 24 040 |
|       |    |      |    | 1,5    | 1 677    | 3 027 | 5 940  |           |     |      |    | 2,25   | 11 335   | 20 120 | 39 110 |
| 60    | 60 | 2000 | 10 | 2      | 86       | 188   | 405    | 120       | 60  | 2000 | 15 | 1,5    | 985      | 1 860  | 3 735  |
|       |    |      |    | 4      | 180      | 390   | 840    |           |     |      |    | 3      | 2 110    | 3 970  | 7 962  |
|       |    |      |    | 6      | 283      | 612   | 1 315  |           |     |      |    | 4,5    | 3 405    | 6 380  | 12 790 |
| 60    | 80 | 2000 | 10 | 3      | 72       | 163   | 356    | 120       | 80  | 2000 | 15 | 2,5    | 507      | 1 033  | 2 156  |
|       |    |      |    | 6      | 148      | 336   | 735    |           |     |      |    | 5      | 1 075    | 2 175  | 4 535  |
|       |    |      |    | 9      | 230      | 520   | 1 140  |           |     |      |    | 7,5    | 1 710    | 3 450  | 7 175  |
| 70    | 30 | 2000 | 10 | 0,5    | 857      | 1 536 | 3 005  | 150       | 60  | 2000 | 15 | 1,5    | 2 190    | 4 035  | 8 005  |
|       |    |      |    | 1      | 1 850    | 3 313 | 6 470  |           |     |      |    | 3      | 4 710    | 8 655  | 17 150 |
|       |    |      |    | 1,5    | 3 015    | 5 390 | 10 510 |           |     |      |    | 4,5    | 7 640    | 14 000 | 27 700 |
| 70    | 50 | 2000 | 10 | 1,5    | 168      | 345   | 717    | 200       | 100 | 2000 | 15 | 3,5    | 1 720    | 3 400  | 7 020  |
|       |    |      |    | 3      | 355      | 720   | 1 510  |           |     |      |    | 7      | 3 655    | 7 210  | 14 825 |
|       |    |      |    | 4,5    | 565      | 1 145 | 2 385  |           |     |      |    | 10,5   | 5 855    | 11 500 | 23 590 |

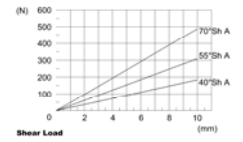
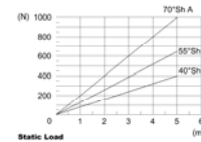
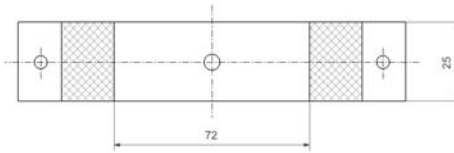
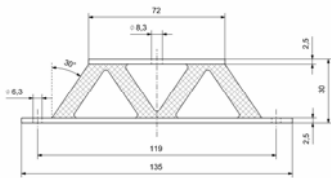
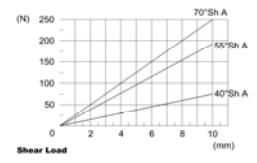
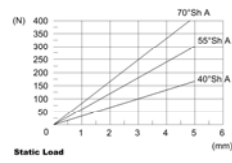
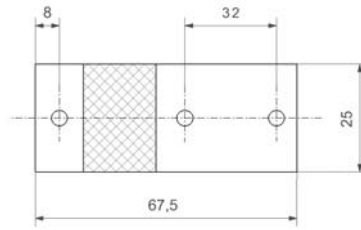
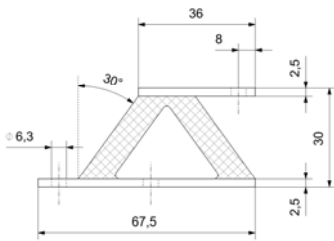
Die Schienen lassen sich auch in Sondergrößen, und mit Bohrungen Bestellen.

## TRAFOLAGER

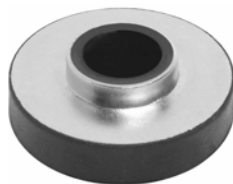
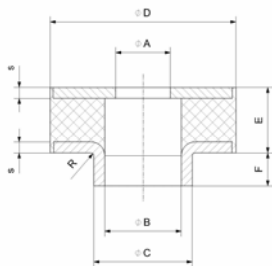




## V-Element

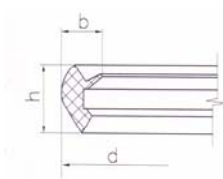


## RINGELEMENT



|               | D  | A    | B  | C  | E  | F  | s   |
|---------------|----|------|----|----|----|----|-----|
| <b>RING-1</b> | 36 | 16,6 | 18 | 20 | 8  | 3  | 1   |
| <b>RING-2</b> | 36 | 6    | 6  | 15 | 16 | 6  | 1   |
| <b>RING-3</b> | 36 | 8,5  | 12 | 18 | 10 | 4  | 1   |
| <b>RING-4</b> | 50 | 16,5 | 20 | 24 | 12 | 10 | 1,5 |
| <b>RING-5</b> | 50 | 16,5 | 22 | 24 | 12 | 12 | 1   |
| <b>RING-6</b> | 60 | 20,5 | 24 | 27 | 13 | 10 | 1,5 |

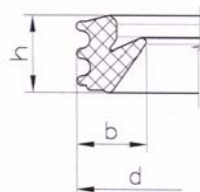
## KG RING



| Nominal Dimension | Ød        |           | h         |           | b         |           |
|-------------------|-----------|-----------|-----------|-----------|-----------|-----------|
|                   | Dimension | Tolerance | Dimension | Tolerance | Dimension | Tolerance |
| 250               | 269       | ± 1,3     | 18,4      | ± 0,4     | 12,3      | ± 0,4     |
| 300               | 337       | ± 1,6     | 24        | ± 0,5     | 14,6      | ± 0,8     |

Hardness: 52 ± 5 Sh° A

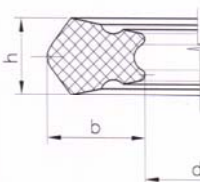
## LIP RING



| Nominal Dimension | ∅d        |           | h         |           | b         |           |
|-------------------|-----------|-----------|-----------|-----------|-----------|-----------|
|                   | Dimension | Tolerance | Dimension | Tolerance | Dimension | Tolerance |
| 30                | 39,5      | ± 0,5     | 6,0       | ± 0,3     | 4,9       | ± 0,3     |
| 40                | 51,7      | ± 0,5     | 7,8       | ± 0,3     | 6,8       | ± 0,3     |
| 50                | 61,8      | ± 0,5     | 7,8       | ± 0,3     | 6,8       | ± 0,3     |
| 110               | 124,2     | ± 0,7     | 8,9       | ± 0,3     | 8,1       | ± 0,3     |
| 125               | 142,3     | ± 0,8     | 10,2      | ± 0,3     | 9,0       | ± 0,3     |
| 160               | 180,1     | ± 0,8     | 11,5      | ± 0,3     | 10,5      | ± 0,3     |
| 200               | 223,8     | ± 1,0     | 12,8      | ± 0,3     | 11,4      | ± 0,3     |
| 300               | 350,0     | ± 2,5     | 20,3      | ± 0,5     | 16,3      | ± 0,4     |
| 400               | 441,2     | ± 3,0     | 23,7      | ± 0,8     | 18,7      | ± 0,5     |
| 500               | 549,0     | ± 3,0     | 29,4      | ± 0,5     | 24,6      | ± 0,5     |

Hardness: 60 ± 5 Sh° A; Tensile strength: > 10 Mpa

## UNICOR/KD-EXTRA/ RING



| Nominal Dimension | ∅d        |             | h         |           | b         |           |
|-------------------|-----------|-------------|-----------|-----------|-----------|-----------|
|                   | Dimension | Tolerance   | Dimension | Tolerance | Dimension | Tolerance |
| 250               | 245       | +1,5 / -2,5 | 8,9       | ± 0,5     | 11,5      | ± 0,5     |
| 315               | 295       | +1,9 / -1,9 | 11,0      | ± 0,5     | 13,2      | ± 0,5     |
| 400               | 388       | +1,5 / -3,5 | 13,8      | ± 0,7     | 17,9      | ± 0,7     |
| 500               | 490       | +1,5 / -3,5 | 17,9      | ± 0,7     | 24,2      | ± 1,1     |

Hardness: 52 ± 5 Sh° A

## KM RING



| Nominal Dimension | ∅d        |             | h         |           | b         |           |
|-------------------|-----------|-------------|-----------|-----------|-----------|-----------|
|                   | Dimension | Tolerance   | Dimension | Tolerance | Dimension | Tolerance |
| 80                | 116       | +0,5 / -1,1 | 12        | ± 0,4     | 21        | ± 0,5     |
| 100               | 139       | +0,5 / -1,5 | 13        | ± 0,4     | 23        | ± 0,5     |
| 125               | 172       | +0,5 / -1,5 | 14        | ± 0,4     | 25        | ± 0,5     |
| 150               | 195       | +0,5 / -2,1 | 15        | ± 0,4     | 27        | ± 0,5     |
| 200               | 267       | +0,5 / -2,7 | 17        | ± 0,4     | 32        | ± 0,8     |
| 250               | 330       | +1,0 / -3,0 | 20        | ± 0,5     | 36        | ± 0,8     |

Hardness: 52 ± 5 Sh° A

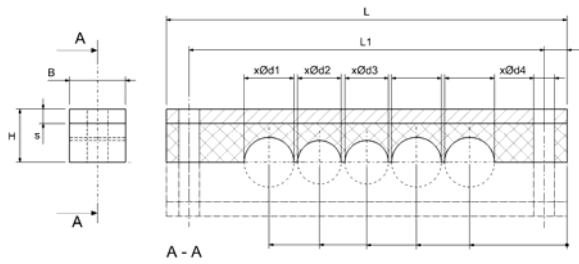
## O RING



| Nominal Dimension | ∅d        |             | b         |           |
|-------------------|-----------|-------------|-----------|-----------|
|                   | Dimension | Tolerance   | Dimension | Tolerance |
| 80                | 116       | +0,5 / -1,1 | 21        | ± 0,5     |
| 100               | 139       | +0,5 / -1,5 | 23        | ± 0,5     |
| 125               | 172       | +0,5 / -1,5 | 25        | ± 0,5     |
| 150               | 195       | +0,5 / -2,1 | 27        | ± 0,5     |
| 200               | 267       | +0,5 / -2,7 | 32        | ± 0,8     |
| 250               | 330       | +1,0 / -3,0 | 36        | ± 0,8     |

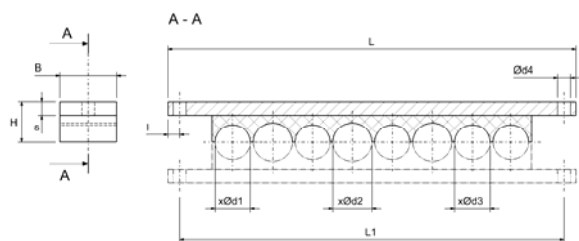
Hardness: 43 ± 5 Sh° A; Tensile strength: min 9,5 Mpa

## PLT



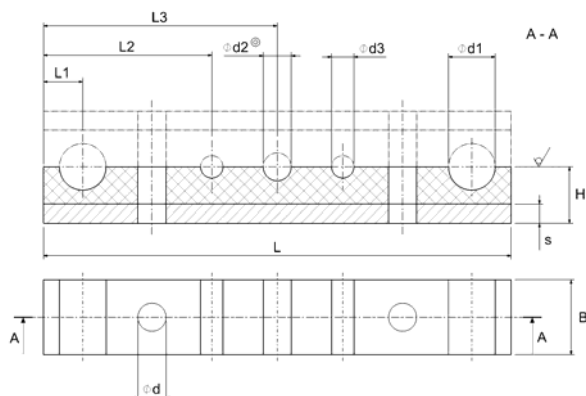
| Type  | L   | L1  | H  | B  | s  | l    | d1   | d2   | d3   | d4 |
|-------|-----|-----|----|----|----|------|------|------|------|----|
| PLT01 | 224 | 99  | 30 | 30 | 8  | 12,5 | 2x25 | 3x28 | -    | 12 |
| PLT02 | 190 | 170 | 30 | 40 | 10 | 10   | 1x25 | 3x24 | 1x28 | 11 |
| PLT03 | 140 | 120 | 40 | 40 | 10 | 10   | 1x54 | 1x45 | -    | 11 |
| PLT04 | 190 | 170 | 40 | 30 | 10 | 10   | 2x25 | 2x28 | 1x11 | 11 |
| PLT05 | 190 | 170 | 40 | 30 | 10 | 10   | 3x25 | 1x28 | 1x11 | 11 |
| PLT06 | 115 | 96  | 30 | 30 | 10 | 9,5  | 2x28 | 1x25 | -    | 11 |
| PLT07 | 115 | 88  | 30 | 30 | 10 | 13,5 | 3x25 | -    | -    | 11 |
| PLT08 | 224 | 199 | 30 | 30 | 8  | 12,5 | 4x25 | 2x28 | -    | 12 |
| PLT09 | 224 | 199 | 30 | 30 | 8  | 12,5 | 2x25 | 3x28 | -    | 12 |
| PLT10 | 224 | 199 | 30 | 30 | 8  | 12,5 | 4x25 | 2x38 | -    | 12 |
| PLT11 | 125 | 105 | 30 | 40 | 10 | 10   | 2x38 | -    | -    | 11 |
| PLT12 | 250 | 225 | 30 | 30 | 10 | 12,5 | 1x25 | 2x26 | 3x28 | 11 |
| PLT13 | 320 | 300 | 30 | 40 | 10 | 10   | 4x32 | 2x22 | -    | 11 |
| PLT14 | 150 | 130 | 30 | 40 | 10 | 10   | 1x39 | 1x32 | -    | 11 |
| PLT15 | 130 | 110 | 30 | 40 | 10 | 10   | 2x32 | -    | -    | 11 |
| PLT16 | 178 | 162 | 20 | 40 | 6  | 8    | 4x11 | 2x20 | 1x19 | 6  |
| PLT17 | 175 | 159 | 20 | 40 | 6  | 8    | 5x15 | 2x19 | 1x11 | 6  |
| PLT18 | 160 | 140 | 30 | 40 | 10 | 10   | 2x32 | 1x19 | -    | 11 |
| PLT19 | 160 | 140 | 30 | 30 | 10 | 10   | 5x20 | -    | -    | 11 |
| PLT20 | 172 | 152 | 30 | 30 | 10 | 10   | 5x20 | -    | -    | 11 |
| PLT21 | 140 | 120 | 30 | 30 | 10 | 10   | 4x20 | -    | -    | 13 |
| PLT22 | 215 | 190 | 30 | 30 | 8  | 12,5 | 5x26 | -    | -    | 12 |
| PLT23 | 125 | 105 | 30 | 30 | 8  | 10   | 2x21 | 2x19 | -    | 13 |
| PLT24 | 110 | 90  | 30 | 40 | 10 | 10   | 1x25 | 1x35 | -    | 11 |
| PLT25 | 125 | 105 | 30 | 30 | 8  | 10   | 1x21 | 3x19 | -    | 13 |
| PLT26 | 159 | 143 | 20 | 40 | 6  | 8    | 5x15 | 3x11 | -    | 9  |

## TLT



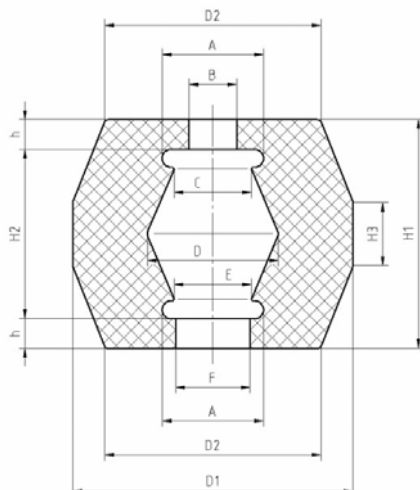
| Type  | L   | L1  | H  | B  | s  | l | d1     | d2   | d3   | d4 |
|-------|-----|-----|----|----|----|---|--------|------|------|----|
| TLT01 | 229 | 278 | 30 | 40 | 10 | 8 | 5x25   | 3x28 | -    | 9  |
| TLT02 | 229 | 213 | 30 | 40 | 10 | 8 | 8x20   | -    | -    | 10 |
| TLT03 | 290 | 274 | 30 | 40 | 10 | 8 | 2x2    | 2x25 | 4x28 | 11 |
| TLT04 | 242 | 222 | 30 | 30 | 10 | 9 | 8x25,5 | -    | -    | 11 |

## BLT



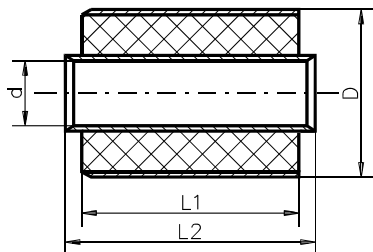
| Type         | L   | L1   | L2  | L3   | H  | B  | s  | d    | d1   | d2   | d3   |
|--------------|-----|------|-----|------|----|----|----|------|------|------|------|
| <b>BLT01</b> | 210 | 54   | 102 | 54   | 30 | 30 | 10 | 2x9  | 8x20 | -    | -    |
| <b>BLT02</b> | 165 | 63,5 | 38  | 6,35 | 20 | 30 | 10 | 2x11 | 2x26 | 2x19 | -    |
| <b>BLT03</b> | 462 | 56   | 205 | 354  | 30 | 40 | 10 | 3x14 | 4x29 | 4x14 | -    |
| <b>BLT04</b> | 144 | 41   | 52  | 51   | 30 | 40 | 10 | 2x11 | 1x22 | 2x32 | -    |
| <b>BLT05</b> | 240 | 20   | 85  | 120  | 30 | 40 | 10 | 2x14 | 2x24 | 1x14 | 2x11 |
| <b>BLT06</b> | 120 | 45   | -   | -    | 30 | 40 | 10 | 1x11 | 2x38 | -    | -    |
| <b>BLT07</b> | 300 | 50   | 120 | 240  | 30 | 40 | 10 | 2x11 | 2x37 | 2x32 | 2x22 |
| <b>BLT08</b> | 350 | 20   | 65  | 116  | 30 | 40 | 10 | 3x14 | 2x34 | 2x11 | 2x19 |
| <b>BLT09</b> | 240 | 20   | 85  | 120  | 30 | 40 | 10 | 2x17 | 1x3  | 2x24 | 2x11 |
| <b>BLT10</b> | 280 | 20   | 75  | 115  | 30 | 40 | 10 | 3x14 | 2x24 | 3x11 | -    |
| <b>BLT11</b> | 240 | 40   | 90  | 150  | 30 | 40 | 10 | 3x11 | 2x38 | 2x32 | -    |

## GF



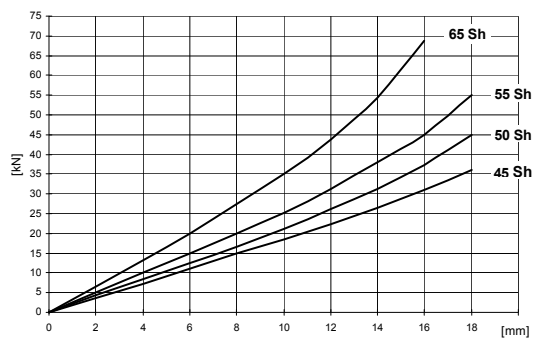
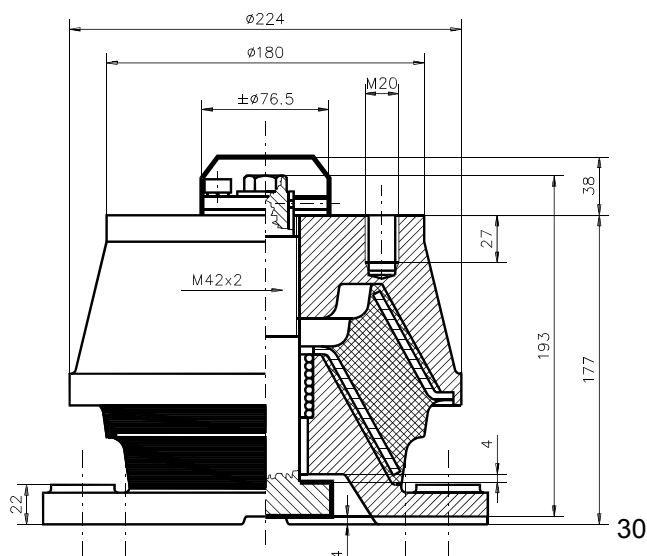
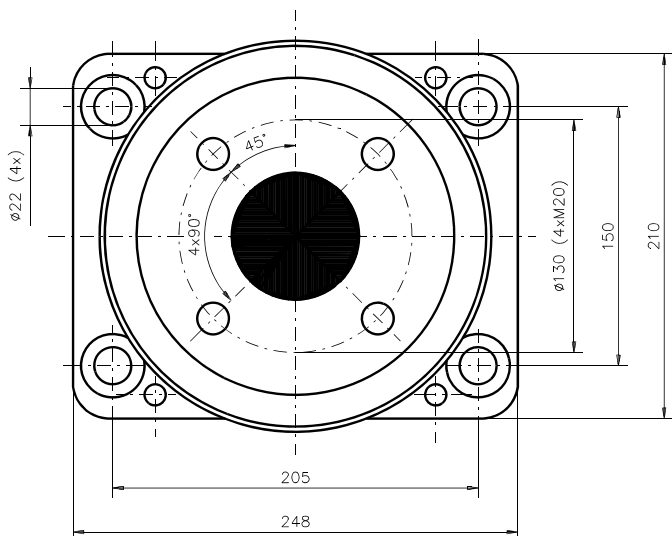
| Type           | D1  | H1  | D2  | A  | B  | C  | D  | E  | F  | H2  | H3 | h   |
|----------------|-----|-----|-----|----|----|----|----|----|----|-----|----|-----|
| <b>55/55</b>   | 55  | 55  | 42  | 22 | 14 | 15 | 24 | 15 | 14 | 35  | 15 | 10  |
| <b>56/90</b>   | 90  | 56  | 75  | 32 | 14 |    | 36 |    | 24 | 40  | 24 | 8   |
| <b>90/108</b>  | 108 | 90  | 82  | 38 | 19 | 29 | 50 | 29 | 29 | 66  | 26 | 12  |
| <b>140/125</b> | 125 | 140 | 115 | 50 | 24 | 40 | 55 | 40 | 39 | 104 | 40 | 18  |
| <b>150/155</b> | 155 | 150 | 135 | 50 | 24 | 40 | 60 | 40 | 39 | 114 | 50 | 118 |
| <b>150/188</b> | 188 | 150 | 155 | 60 | 29 | 58 | 70 | 48 | 39 | 112 | 50 | 20  |
| <b>180/188</b> | 188 | 180 | 167 | 60 | 29 | 48 | 70 | 48 | 39 | 142 | 60 | 20  |

## BUSHING

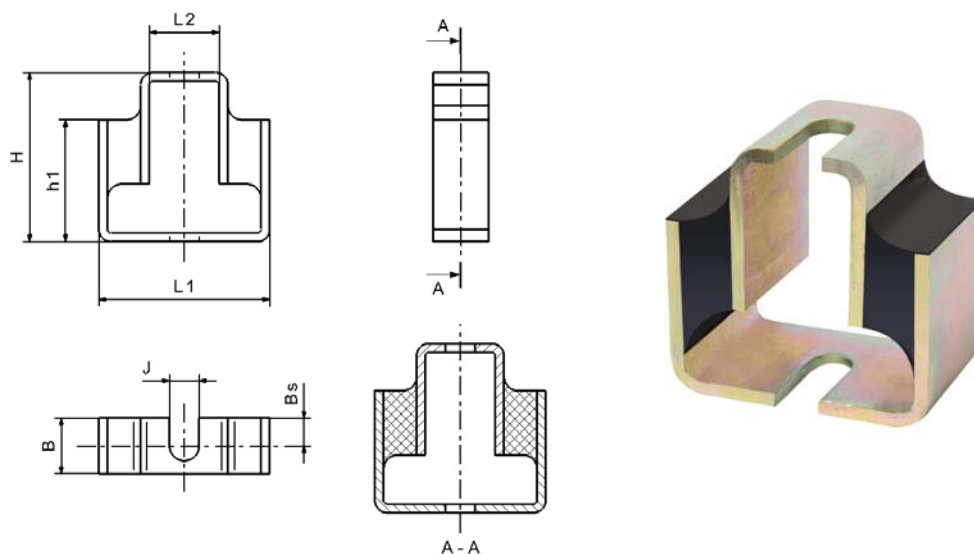


| D  | d    | L1 | L2 |
|----|------|----|----|
| 22 | 10   | 24 | 20 |
| 22 | 12   | 25 | 28 |
| 25 | 10   | 20 | 25 |
| 26 | 8,5  | 25 | 25 |
| 27 | 14   | 40 | 48 |
| 30 | 13   | 40 | 40 |
| 30 | 14   | 25 | 28 |
| 30 | 14   | 67 | 76 |
| 32 | 16   | 50 | 54 |
| 40 | 25   | 20 | 20 |
| 40 | 25   | 30 | 30 |
| 45 | 20   | 60 | 63 |
| 50 | 25   | 30 | 34 |
| 50 | 25   | 65 | 68 |
| 50 | 25   | 80 | 85 |
| 55 | 15,5 | 30 | 16 |
| 60 | 30   | 60 | 68 |
| 62 | 36   | 65 | 71 |
| 64 | 38   | 80 | 88 |

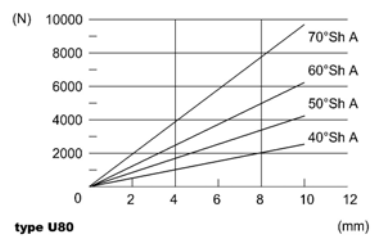
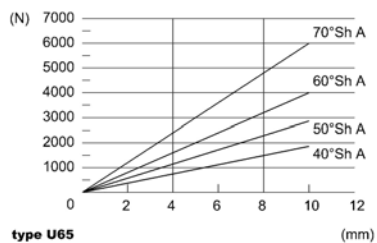
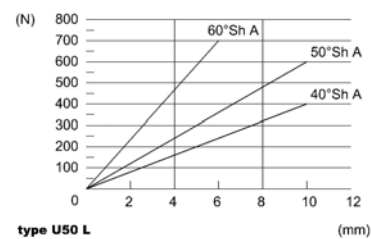
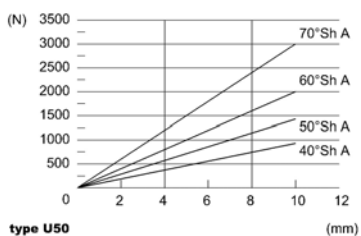
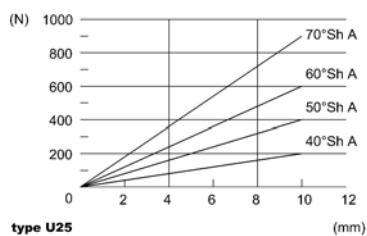
## HEAVY DUTY VIBRATION DAMPER FOR STATIONARY AND MARINE APPLICATION



## U-LAGER GM1

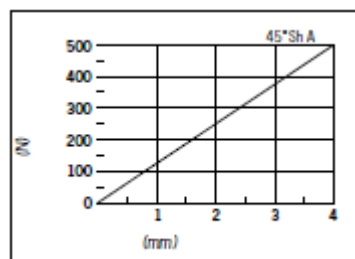
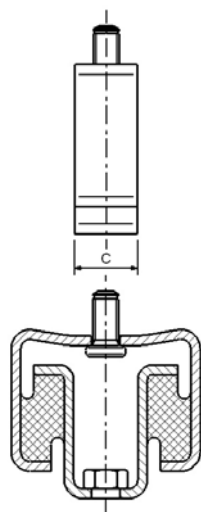
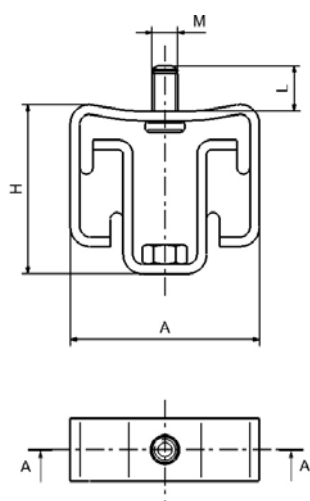


| Type         | B  | L1  | L2   | H   | h1  | Bs   | J    |
|--------------|----|-----|------|-----|-----|------|------|
| <b>U25</b>   | 25 | 71  | 26,4 | 62  | 43  | 12,5 | 11   |
| <b>U50</b>   | 50 | 79  | 32,4 | 78  | 56  | 25   | 13,5 |
| <b>U50 L</b> | 50 | 60  | 20   | 41  | 30  | 25   | Ø 11 |
| <b>U65</b>   | 65 | 87  | 38,4 | 108 | 83  | 32,5 | 17,5 |
| <b>U80</b>   | 80 | 100 | 48   | 130 | 100 | 40   | 17,5 |



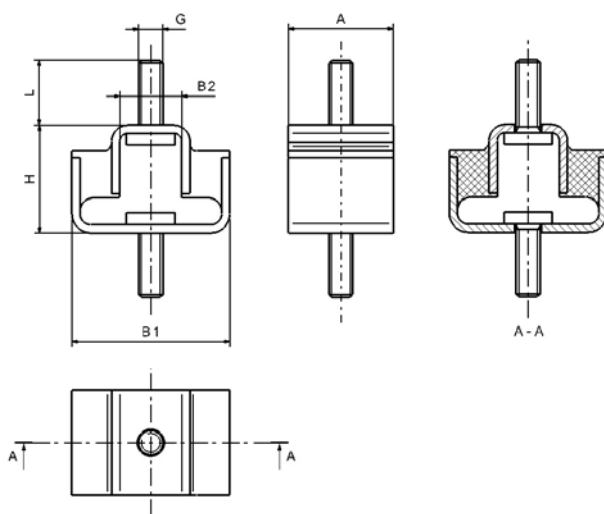


## U-LAGER GM2



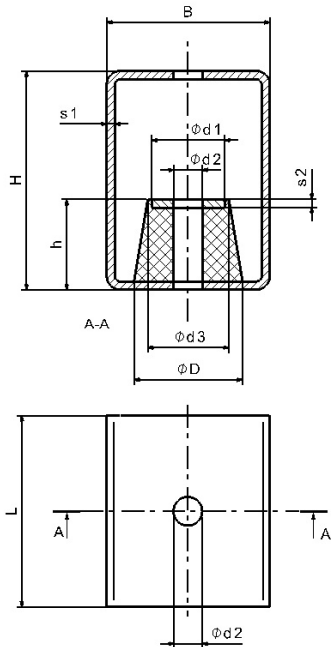
| Type     | Shore | H  | C  | A  | M  | L  |
|----------|-------|----|----|----|----|----|
| 535 611  | NK45  | 47 | 30 | 55 | M8 | 13 |
| 53561160 | NK60  | 47 | 30 | 55 | M8 | 13 |

## U-LAGER RB



| Type  | B1 | B2 | A  | H  | L  | G   |
|-------|----|----|----|----|----|-----|
| L2000 | 52 | 20 | 35 | 36 | 21 | M8  |
| 18301 | 54 | 22 | 50 | 40 | 22 | M10 |

# HNG-S



Gewinde, Mutter und Unterlage sind extra

| Type   | B  | H   | L  | D  | h  | s1 | s2 | d1   | d2   | d3 |
|--------|----|-----|----|----|----|----|----|------|------|----|
| HNG-S1 | 40 | 60  | 45 | 30 | 28 | 3  | 2  | 22,5 | 8,5  | 25 |
| HNG-S2 | 60 | 80  | 55 | 40 | 33 | 3  | 3  | 27   | 10,5 | 30 |
| HNG-S3 | 80 | 100 | 70 | 60 | 54 | 4  | 3  | 45   | 12,5 | 50 |

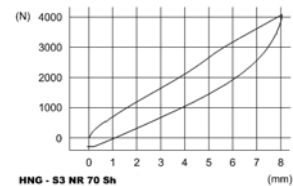
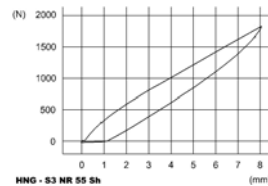
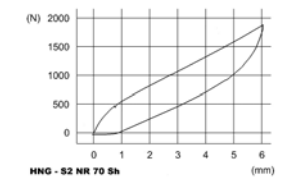
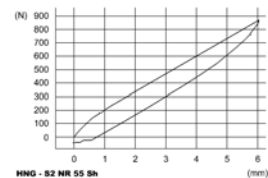
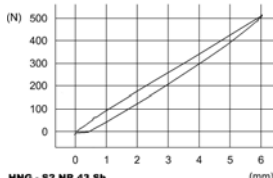
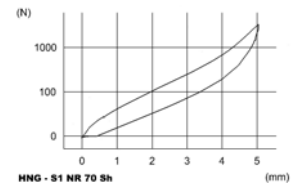
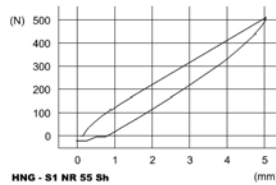
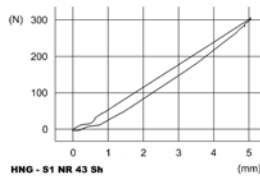
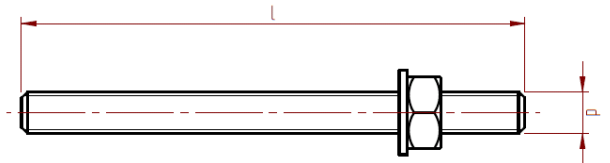
## Gewinde Optionen:

**M8 x L (Länge):** min 80 mm, 90 mm, 100, 110 mm, 120 mm, ... 200 mm.

from 200 mm – 1.000 mm: 200 mm, 300 mm, 400 mm, ... 1.000 mm.

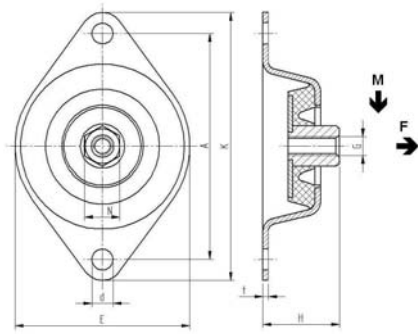
**M10 & M12 x L (Länge):** min 100 mm, 110, mm, 120 mm, ... 200 mm.

from 200 mm – 1.000 mm: 200 mm, 300 mm, 400 mm, ... 1.000 mm.

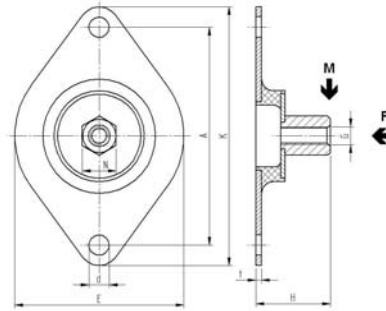


# HNG

HNG-UPPER

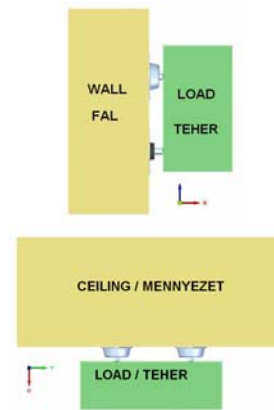


HNG-LOWER

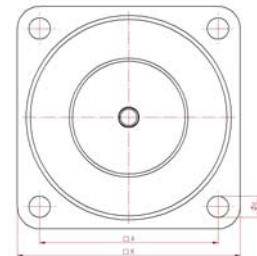
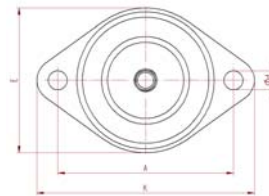
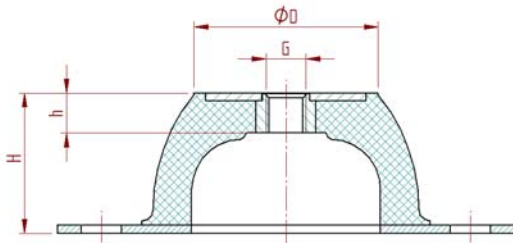


| Type      | E  | K   | A  | H  | d | N  | t   | G  |
|-----------|----|-----|----|----|---|----|-----|----|
| HNG-upper | 75 | 114 | 96 | 33 | 9 | 15 | 2,5 | M8 |
| HNG-lower | 75 | 114 | 96 | 33 | 9 | 15 | 2,5 | M8 |

| Load/terhelés | M-Max (kg) |        | F-max (kg) |        |
|---------------|------------|--------|------------|--------|
|               | 40° Sh     | 60° Sh | 40° Sh     | 60° Sh |
| HNG-upper     | 14         | 25     | 30         | 70     |
| HNG-lower     | 14         | 25     | 30         | 70     |



# VIBR M



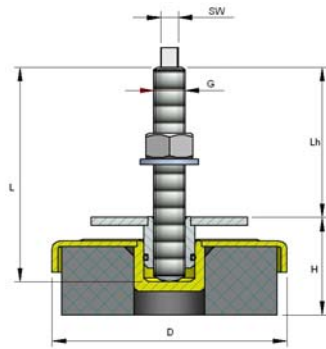
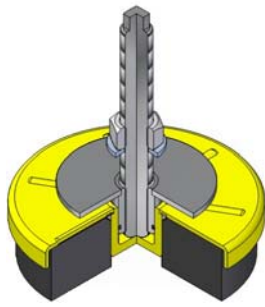
VIBR M0007  
VIBR M0025  
VIBR M0050  
VIBR M0100  
VIBR M0200

VIBR M0400  
VIBR M0600  
VIBR M1500

| Type       | D   | E   | A   | K   | H   | h  | d    | G    |
|------------|-----|-----|-----|-----|-----|----|------|------|
| VIBR M0007 | 18  | 43  | 50  | 64  | 20  | 7  | 7.0  | M 6  |
| VIBR M0025 | 33  | 56  | 66  | 85  | 25  | 11 | 8.0  | M 8  |
| VIBR M0050 | 45  | 76  | 92  | 114 | 35  | 14 | 10.0 | M 10 |
| VIBR M0100 | 53  | 96  | 110 | 136 | 40  | 15 | 11.5 | M 10 |
| VIBR M0200 | 58  | 101 | 124 | 151 | 45  | 13 | 11.5 | M 10 |
| VIBR M0400 | 78  |     | 120 | 150 | 63  | 18 | 14.5 | M 12 |
| VIBR M0600 | 100 |     | 160 | 200 | 85  | 25 | 14.5 | M 16 |
| VIBR M1500 | 186 |     | 250 | 310 | 160 | 43 | 18.0 | M 24 |

| MAX (Kg) |        |
|----------|--------|
| 40° Sh   | 60° Sh |
| 3,5      | 9      |
| 20       | 50     |
| 40       | 80     |
| 70       | 150    |
| 130      | 220    |
| 280      | 500    |
| 380      | 750    |
| 1400     | 2500   |

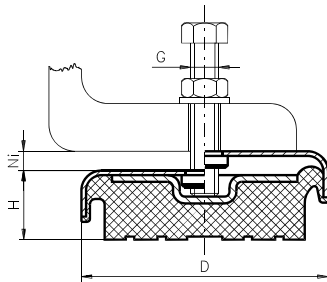
## MFL



|              | D   | H     | G       | L   | Lh      | SW |
|--------------|-----|-------|---------|-----|---------|----|
| <b>MFL-1</b> | 80  | 38-48 | M12x1,5 | 100 | 75-65   | 8  |
| <b>MFL-2</b> | 120 | 43-55 | M16x1,5 | 120 | 80-68   | 9  |
| <b>MFL-3</b> | 160 | 48-53 | M20x1,5 | 170 | 125-110 | 12 |

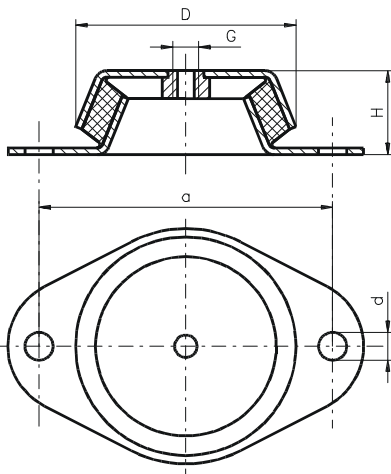
| NR70 Shore   | Static Load (N) | Dinamic Load (N) |                |                 |
|--------------|-----------------|------------------|----------------|-----------------|
|              |                 | 200 cycle/min.   | 160 cycle/min. | <125 cycle/min. |
| <b>MFL-1</b> | 6000            | 1200             | 1400           | 2000            |
| <b>MFL-2</b> | 15000           | 2500             | 3500           | 4000            |
| <b>MFL-3</b> | 30000           | 7000             | 10000          | 25000           |

## KA



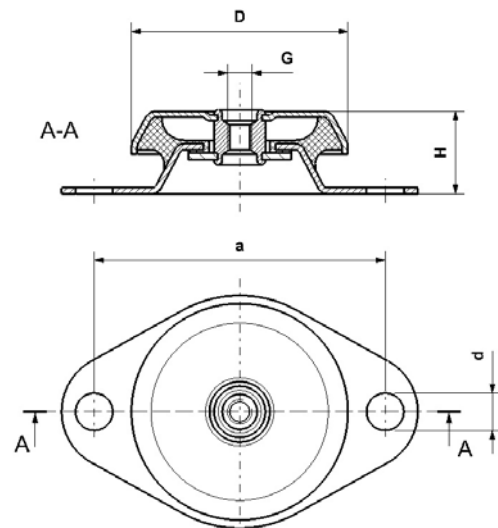
| Type         | D   | H  | Ni | G   | Load (daN) |
|--------------|-----|----|----|-----|------------|
| <b>KA01</b>  | 80  | 25 | 10 | M10 | 150        |
| <b>KA02</b>  | 150 | 40 | 12 | M16 | 1000       |
| <b>KA03</b>  | 200 | 45 | 15 | M20 | 3000       |
| <b>KA015</b> | 120 | 35 | 12 | M12 | 600        |
| <b>KA090</b> | 90  | 35 | 10 | M12 | 400        |

## GMF + GMF B.S.



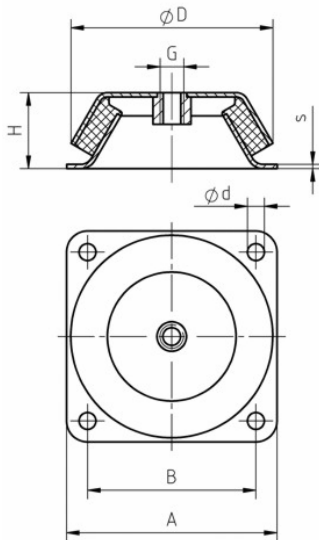
**GMF**

| D/H           | D   | H  | a   | d    | G   | Load (daN) |
|---------------|-----|----|-----|------|-----|------------|
| <b>48/23</b>  | 48  | 23 | 68  | 6,2  | M8  | 100        |
| <b>62/30</b>  | 62  | 30 | 85  | 8,2  | M10 | 200        |
| <b>92/45</b>  | 92  | 45 | 110 | 10,2 | M12 | 300        |
| <b>101/38</b> | 101 | 38 | 175 | 14   | M12 | 400        |
| <b>106/38</b> | 106 | 38 | 140 | 12,4 | M12 | 400        |
| <b>160/60</b> | 160 | 60 | 200 | 16,2 | M16 | 1000       |



**GMF B.S. – break safe**

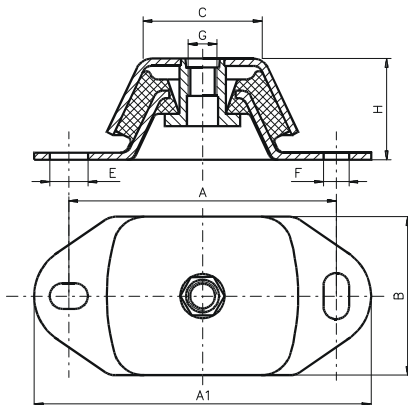
## QMF



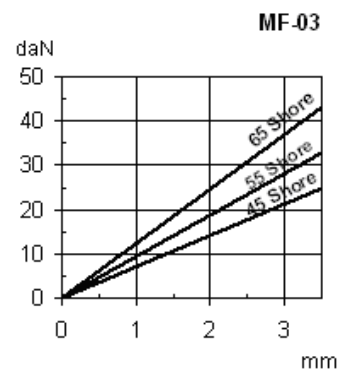
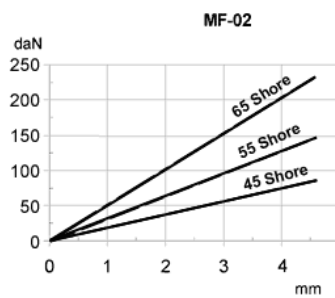
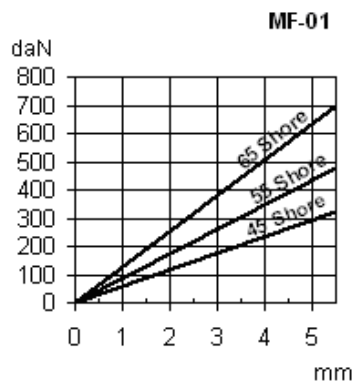
| D/H    | D   | H  | A   | B   | S | G    | d    | Load (daN) |
|--------|-----|----|-----|-----|---|------|------|------------|
| 160/60 | 160 | 60 | 175 | 145 | 3 | M 16 | 12,5 | 800        |
| 177/63 | 177 | 63 | 180 | 150 | 3 | M 20 | 13   | 1400       |



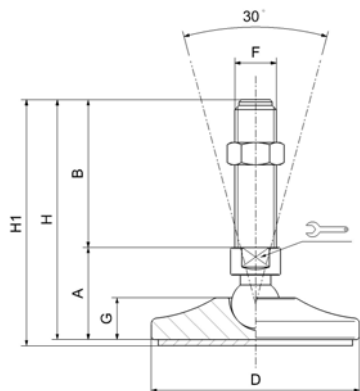
## MF



| Type | A   | A1  | B   | C  | E     | F     | G   | H  |
|------|-----|-----|-----|----|-------|-------|-----|----|
| 01   | 182 | 230 | 112 | 80 | 25x18 | 18x33 | M20 | 73 |
| 02   | 140 | 183 | 75  | 75 | 20x13 | 13x30 | M16 | 50 |
| 03   | 100 | 120 | 60  | 60 | 11x14 | 11x14 | M10 | 40 |



# MAR – 35 INOX / STEEL





INOX




STEEL




| I N O X |         |    |    |   |      |     |     |        |
|---------|---------|----|----|---|------|-----|-----|--------|
| Type    | F x B   | A  | D  |  | G    | H   | H1  | Load N |
| 10439   | M8x25   | 25 | 40 | 12  | 14,5 | 50  | 53  | 10000  |
| 10441   | M8x50   | 25 | 40 | 12  | 14,5 | 75  | 78  | 10000  |
| 10443   | M8x75   | 25 | 40 | 12  | 14,5 | 100 | 103 | 10000  |
| 10447   | M8x100  | 25 | 40 | 12  | 14,5 | 125 | 128 | 10000  |
| 10449   | M10x25  | 25 | 40 | 12  | 14,5 | 50  | 53  | 10000  |
| 10451   | M10x50  | 25 | 40 | 12  | 14,5 | 75  | 78  | 10000  |
| 10453   | M10x75  | 25 | 40 | 12  | 14,5 | 100 | 103 | 10000  |
| 10455   | M10x100 | 25 | 40 | 12  | 14,5 | 125 | 128 | 10000  |
| 10457   | M10x125 | 25 | 40 | 12  | 14,5 | 150 | 153 | 10000  |


| INOX Type | STEEL Type | F x B   | A  | D  |  | G  | H   | H1  | Load N |
|-----------|------------|---------|----|----|--|----|-----|-----|--------|
| 10459     | 10679      | M10x25  | 28 | 50 | 14   | 16 | 53  | 56  | 15000  |
| 10461     | 10681      | M10x50  | 28 | 50 | 14   | 16 | 78  | 81  | 15000  |
| 10463     | 10683      | M10x75  | 28 | 50 | 14   | 16 | 103 | 106 | 15000  |
| 10465     | 10685      | M10x100 | 28 | 50 | 14   | 16 | 128 | 131 | 15000  |
| 10467     | 10687      | M10x125 | 28 | 50 | 14   | 16 | 153 | 156 | 15000  |
| 10469     | 10689      | M12x25  | 28 | 50 | 14   | 16 | 53  | 56  | 15000  |
| 10471     | 10691      | M12x50  | 28 | 50 | 14   | 16 | 78  | 81  | 15000  |
| 10473     | 10693      | M12x75  | 28 | 50 | 14   | 16 | 103 | 106 | 15000  |
| 10475     | 10695      | M12x100 | 28 | 50 | 14   | 16 | 128 | 131 | 15000  |
| 10477     | 10697      | M12x125 | 28 | 50 | 14   | 16 | 153 | 156 | 15000  |
| 10479     | 10699      | M14x25  | 28 | 50 | 14   | 16 | 53  | 56  | 15000  |
| 10481     | 10701      | M14x50  | 28 | 50 | 14   | 16 | 78  | 81  | 15000  |
| 10483     | 10703      | M14x75  | 28 | 50 | 14   | 16 | 103 | 106 | 15000  |
| 10485     | 10705      | M14x100 | 28 | 50 | 14   | 16 | 128 | 131 | 15000  |
| 10487     | 10707      | M14x125 | 28 | 50 | 14   | 16 | 153 | 156 | 15000  |


| INOX Type | STEEL Type | F x B   | A    |       | D  |  |       | G  | H     |       | H1    |       | Load N |
|-----------|------------|---------|------|-------|----|---|-------|----|-------|-------|-------|-------|--------|
|           |            |         | INOX | STEEL |    | INOX  | STEEL |    | INOX  | STEEL | INOX  | STEEL |        |
| 10489     | 10709      | M14x50  | 30   | 30    | 65 | 14  | 16    | 17 | 80    | 80    | 83    | 83    | 20000  |
| 10491     | 10711      | M14x75  | 30   | 30    | 65 | 14  | 16    | 17 | 105   | 105   | 108   | 108   | 20000  |
| 10493     | 10713      | M14x100 | 30   | 30    | 65 | 14  | 16    | 17 | 130   | 130   | 133   | 133   | 20000  |
| 10495     | 10715      | M14x125 | 30   | 30    | 65 | 14  | 16    | 17 | 155   | 155   | 158   | 158   | 20000  |
| 10497     | 10717      | M14x150 | 30   | 30    | 65 | 14  | 16    | 17 | 180   | 180   | 183   | 183   | 20000  |
| 10501     | 10721      | M16x50  | 34,5 | 30    | 65 | 13  | 16    | 17 | 84,5  | 80    | 89,5  | 83    | 20000  |
| 10503     | 10723      | M16x75  | 34,5 | 30    | 65 | 13  | 16    | 17 | 109,5 | 105   | 112,5 | 108   | 20000  |
| 10505     | 10725      | M16x100 | 34,5 | 30    | 65 | 13  | 16    | 17 | 134,5 | 130   | 137,5 | 133   | 20000  |
| 10507     | 10727      | M16x125 | 34,5 | 30    | 65 | 13  | 16    | 17 | 159,5 | 155   | 162,5 | 158   | 20000  |
| 10509     | 10729      | M16x150 | 34,5 | 30    | 65 | 13  | 16    | 17 | 184,5 | 180   | 187,5 | 183   | 20000  |
| 10511     | 10731      | M16x175 | 34,5 | 30    | 65 | 13  | 16    | 17 | 209,5 | 205   | 212,5 | 208   | 20000  |

The above indicated load values refer to load measured at half length of the screw. In case of high vibration or by dynamic load these values should be reduced. Please consult your supplier.




| INOX Type | STEEL Type | F x B   | A INOX | A STEEL | D  |  |       | G    | H INOX | H STEEL | H1 INOX | H1 STEEL | Load N |
|-----------|------------|---------|--------|---------|----|---|-------|------|--------|---------|---------|----------|--------|
|           |            |         |        |         |    | INOX  | STEEL |      |        |         |         |          |        |
| 10515     | 10735      | M16x50  | 36     | 33      | 80 | 13  | 16    | 19,5 | 86     | 83      | 89      | 86       | 30000  |
| 10517     | 10737      | M16x75  | 36     | 33      | 80 | 13  | 16    | 19,5 | 111    | 108     | 114     | 111      | 30000  |
| 10519     | 10739      | M16x100 | 36     | 33      | 80 | 13  | 16    | 19,5 | 136    | 133     | 139     | 136      | 30000  |
| 10521     | 10741      | M16x125 | 36     | 33      | 80 | 13  | 16    | 19,5 | 159    | 158     | 163     | 161      | 30000  |
| 10523     | 10743      | M16x150 | 36     | 33      | 80 | 13  | 16    | 19,5 | 186    | 183     | 189     | 186      | 30000  |
| 10525     | 10745      | M16x175 | 36     | 33      | 80 | 13  | 16    | 19,5 | 211    | 208     | 214     | 211      | 30000  |
| 10527     | 10747      | M16x200 | 36     | 33      | 80 | 13  | 16    | 19,5 | 236    | 233     | 239     | 236      | 30000  |
| 10529     | 10749      | M20x75  | 36     | 36      | 80 | 17  | 17    | 19,5 | 111    | 111     | 114     | 114      | 30000  |
| 10531     | 10751      | M20x100 | 36     | 36      | 80 | 17  | 17    | 19,5 | 136    | 136     | 139     | 139      | 30000  |
| 10533     | 10753      | M20x125 | 36     | 36      | 80 | 17  | 17    | 19,5 | 161    | 161     | 164     | 164      | 30000  |
| 10535     | 10755      | M20x150 | 36     | 36      | 80 | 17  | 17    | 19,5 | 186    | 186     | 189     | 189      | 30000  |
| 10537     | 10757      | M20x175 | 36     | 36      | 80 | 17  | 17    | 19,5 | 211    | 211     | 214     | 214      | 30000  |
| 10539     | 10759      | M20x200 | 36     | 36      | 80 | 17  | 17    | 19,5 | 236    | 236     | 239     | 239      | 30000  |
| 10541     | 10761      | M20x225 | 36     | 36      | 80 | 17  | 17    | 19,5 | 261    | 261     | 264     | 264      | 30000  |

| INOX Type | STEEL Type | F x B   | A  | D   |  |       | G   | H   | H1    | Load N |
|-----------|------------|---------|----|-----|---|-------|-----|-----|-------|--------|
|           |            |         |    |     | INOX  | STEEL |     |     |       |        |
| 10543     | 10763      | M16x50  | 43 | 100 | 20  | 20    | 93  | 96  | 35000 |        |
| 10545     | 10765      | M16x75  | 43 | 100 | 20  | 20    | 118 | 121 | 35000 |        |
| 10547     | 10767      | M16x100 | 43 | 100 | 20  | 20    | 143 | 146 | 35000 |        |
| 10549     | 10769      | M16x125 | 43 | 100 | 20  | 20    | 168 | 171 | 35000 |        |
| 10551     | 10771      | M16x150 | 43 | 100 | 20  | 20    | 193 | 196 | 35000 |        |
| 10553     | 10773      | M16x175 | 43 | 100 | 20  | 20    | 218 | 221 | 35000 |        |
| 10555     | 10775      | M16x200 | 43 | 100 | 20  | 20    | 243 | 246 | 35000 |        |
| 10561     | 10781      | M20x75  | 43 | 100 | 20  | 20    | 118 | 121 | 45000 |        |
| 10563     | 10783      | M20x100 | 43 | 100 | 20  | 20    | 143 | 146 | 45000 |        |
| 10565     | 10785      | M20x125 | 43 | 100 | 20  | 20    | 168 | 171 | 45000 |        |
| 10567     | 10787      | M20x150 | 43 | 100 | 20  | 20    | 193 | 196 | 45000 |        |
| 10569     | 10789      | M20x175 | 43 | 100 | 20  | 20    | 218 | 221 | 45000 |        |
| 10571     | 10791      | M20x200 | 43 | 100 | 20  | 20    | 243 | 246 | 45000 |        |
| 10573     | 10793      | M20x225 | 43 | 100 | 20  | 20    | 268 | 271 | 45000 |        |
| 10575     | 10795      | M20x250 | 43 | 100 | 20  | 20    | 293 | 296 | 45000 |        |
| 10579     | 10799      | M24x75  | 44 | 100 | 20  | 20    | 119 | 122 | 55000 |        |
| 10581     | 10801      | M24x100 | 44 | 100 | 20  | 20    | 144 | 147 | 55000 |        |
| 10583     | 10803      | M24x125 | 44 | 100 | 20  | 20    | 169 | 172 | 55000 |        |
| 10585     | 10805      | M24x150 | 44 | 100 | 20  | 20    | 199 | 202 | 55000 |        |
| 10587     | 10807      | M24x175 | 44 | 100 | 20  | 20    | 219 | 222 | 55000 |        |
| 10589     | 10809      | M24x200 | 44 | 100 | 20  | 20    | 244 | 247 | 55000 |        |
| 10591     | 10811      | M24x225 | 44 | 100 | 20  | 20    | 269 | 272 | 55000 |        |
| 10593     | 10813      | M24x250 | 44 | 100 | 20  | 20    | 294 | 297 | 55000 |        |

| INOX Type | STEEL Type | F x B   | A  | D   |  |       | G   | H   | H1    | Load N |
|-----------|------------|---------|----|-----|---|-------|-----|-----|-------|--------|
|           |            |         |    |     | INOX  | STEEL |     |     |       |        |
| 10595     | 10815      | M16x50  | 46 | 120 | 20  | 23    | 96  | 99  | 35000 |        |
| 10597     | 10817      | M16x75  | 46 | 120 | 20  | 23    | 121 | 124 | 35000 |        |
| 10599     | 10819      | M16x100 | 46 | 120 | 20  | 23    | 146 | 149 | 35000 |        |
| 10601     | 10821      | M16x125 | 46 | 120 | 20  | 23    | 171 | 174 | 35000 |        |
| 10603     | 10823      | M16x150 | 46 | 120 | 20  | 23    | 196 | 199 | 35000 |        |
| 10605     | 10825      | M16x175 | 46 | 120 | 20  | 23    | 221 | 224 | 35000 |        |
| 10607     | 10827      | M16x200 | 46 | 120 | 20  | 23    | 246 | 249 | 35000 |        |
| 10613     | 10833      | M20x75  | 46 | 120 | 20  | 23    | 121 | 124 | 45000 |        |
| 10615     | 10835      | M20x100 | 46 | 120 | 20  | 23    | 146 | 149 | 45000 |        |
| 10617     | 10837      | M20x125 | 46 | 120 | 20  | 23    | 171 | 174 | 45000 |        |
| 10619     | 10839      | M20x150 | 46 | 120 | 20  | 23    | 196 | 199 | 45000 |        |

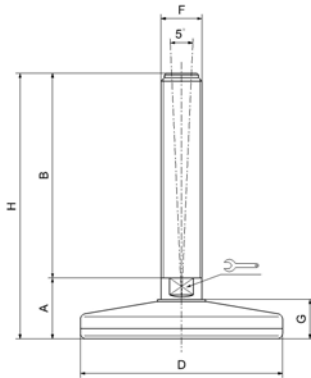
|       |       |         |    |     |    |    |     |     |       |
|-------|-------|---------|----|-----|----|----|-----|-----|-------|
| 10621 | 10841 | M20x175 | 46 | 120 | 20 | 23 | 221 | 224 | 45000 |
| 10623 | 10843 | M20x200 | 46 | 120 | 20 | 23 | 246 | 249 | 45000 |
| 10625 | 10845 | M20x225 | 46 | 120 | 20 | 23 | 271 | 274 | 45000 |
| 10627 | 10847 | M20x250 | 46 | 120 | 20 | 23 | 296 | 299 | 45000 |
| 10631 | 10851 | M24x75  | 47 | 120 | 20 | 23 | 122 | 125 | 55000 |
| 10633 | 10853 | M24x100 | 47 | 120 | 20 | 23 | 147 | 150 | 55000 |
| 10635 | 10855 | M24x125 | 47 | 120 | 20 | 23 | 172 | 175 | 55000 |
| 10637 | 10857 | M24x150 | 47 | 120 | 20 | 23 | 197 | 200 | 55000 |
| 10639 | 10859 | M24x175 | 47 | 120 | 20 | 23 | 222 | 225 | 55000 |
| 10641 | 10861 | M24x200 | 47 | 120 | 20 | 23 | 247 | 250 | 55000 |
| 10643 | 10863 | M24x225 | 47 | 120 | 20 | 23 | 272 | 275 | 55000 |
| 10645 | 10865 | M24x250 | 47 | 120 | 20 | 23 | 297 | 300 | 55000 |
| 10647 | 10867 | M30x100 | 47 | 120 | 26 | 23 | 147 | 150 | 65000 |
| 10649 | 10869 | M30x125 | 47 | 120 | 26 | 23 | 172 | 175 | 65000 |
| 10651 | 10871 | M30x150 | 47 | 120 | 26 | 23 | 197 | 200 | 65000 |
| 10653 | 10873 | M30x175 | 47 | 120 | 26 | 23 | 222 | 225 | 65000 |
| 10655 | 10875 | M30x200 | 47 | 120 | 26 | 23 | 247 | 250 | 65000 |
| 10657 | 10877 | M30x225 | 47 | 120 | 26 | 23 | 272 | 275 | 65000 |
| 10659 | 10879 | M30x250 | 47 | 120 | 26 | 23 | 297 | 300 | 65000 |

| I N O X |         |    |     |   |    |     |     |        |
|---------|---------|----|-----|---|----|-----|-----|--------|
| Type    | F x B   | A  | D   |  | G  | H   | H1  | Load N |
| 10885   | M20x75  | 49 | 140 | 20  | 26 | 124 | 127 | 50000  |
| 10887   | M20x100 | 49 | 140 | 20  | 26 | 149 | 152 | 50000  |
| 10889   | M20x125 | 49 | 140 | 20  | 26 | 174 | 177 | 50000  |
| 10891   | M20x150 | 49 | 140 | 20  | 26 | 199 | 202 | 50000  |
| 10893   | M20x175 | 49 | 140 | 20  | 26 | 224 | 227 | 50000  |
| 10895   | M20x200 | 49 | 140 | 20  | 26 | 249 | 252 | 50000  |
| 10905   | M24x75  | 49 | 140 | 20  | 26 | 124 | 127 | 60000  |
| 10907   | M24x100 | 49 | 140 | 20  | 26 | 149 | 152 | 60000  |
| 10909   | M24x125 | 49 | 140 | 20  | 26 | 174 | 177 | 60000  |
| 10911   | M24x150 | 49 | 140 | 20  | 26 | 199 | 202 | 60000  |
| 10913   | M24x175 | 49 | 140 | 20  | 26 | 224 | 227 | 60000  |
| 10915   | M24x200 | 49 | 140 | 20  | 26 | 249 | 252 | 60000  |
| 10921   | M30x100 | 49 | 140 | 26  | 26 | 149 | 152 | 70000  |
| 10923   | M30x125 | 49 | 140 | 26  | 26 | 174 | 177 | 70000  |
| 10925   | M30x150 | 49 | 140 | 26  | 26 | 199 | 202 | 70000  |
| 10927   | M30x175 | 49 | 140 | 26  | 26 | 224 | 227 | 70000  |
| 10929   | M30x200 | 49 | 140 | 26  | 26 | 249 | 252 | 70000  |
| 10931   | M30x225 | 49 | 140 | 26  | 26 | 274 | 277 | 70000  |
| 10933   | M30x250 | 49 | 140 | 26  | 26 | 299 | 302 | 70000  |


The above indicated load values refer to load measured at half length of the screw. In case of high vibration or by dynamic load these values should be reduced. Please consult your supplier.




# MAR – 39 INOX





**INOX**

| I N O X |         |      |    |   |    |       |        |
|---------|---------|------|----|---|----|-------|--------|
| Type    | F x B   | A    | D  |  | G  | H     | Load N |
| 15023   | M16x50  | 32,5 | 75 | 13  | 20 | 82,5  | 20000  |
| 15024   | M16x75  | 32,5 | 75 | 13  | 20 | 107,5 | 20000  |
| 15025   | M16x100 | 32,5 | 75 | 13  | 20 | 132,5 | 20000  |
| 15026   | M16x125 | 32,5 | 75 | 13  | 20 | 157,5 | 20000  |
| 15027   | M16x150 | 32,5 | 75 | 13  | 20 | 182,5 | 20000  |
| 15028   | M16x175 | 32,5 | 75 | 13  | 20 | 207,5 | 20000  |
| 15029   | M20x50  | 32,5 | 75 | 17  | 20 | 82,5  | 20000  |
| 15030   | M20x75  | 32,5 | 75 | 17  | 20 | 107,5 | 20000  |
| 15031   | M20x100 | 32,5 | 75 | 17  | 20 | 132,5 | 20000  |
| 15032   | M20x125 | 32,5 | 75 | 17  | 20 | 157,5 | 20000  |
| 15033   | M20x150 | 32,5 | 75 | 17  | 20 | 182,5 | 20000  |
| 15034   | M20x175 | 32,5 | 75 | 17  | 20 | 207,5 | 20000  |
| 15035   | M20x200 | 32,5 | 75 | 17  | 20 | 232,5 | 20000  |
| 15036   | M20x225 | 32,5 | 75 | 17  | 20 | 257,5 | 20000  |

| Type  | F x B   | A  | D   |  | G  | H   | Load N |
|-------|---------|----|-----|---|----|-----|--------|
| 15037 | M16x50  | 37 | 100 | 17  | 25 | 87  | 30000  |
| 15038 | M16x75  | 37 | 100 | 17  | 25 | 112 | 30000  |
| 15039 | M16x100 | 37 | 100 | 17  | 25 | 137 | 30000  |
| 15040 | M16x125 | 37 | 100 | 17  | 25 | 162 | 30000  |
| 15041 | M16x150 | 37 | 100 | 17  | 25 | 187 | 30000  |
| 15042 | M16x175 | 37 | 100 | 17  | 25 | 212 | 30000  |
| 15043 | M16x200 | 37 | 100 | 17  | 25 | 237 | 30000  |
| 15045 | M20x50  | 37 | 100 | 17  | 25 | 87  | 30000  |
| 15046 | M20x75  | 37 | 100 | 17  | 25 | 112 | 30000  |
| 15047 | M20x100 | 37 | 100 | 17  | 25 | 137 | 30000  |
| 15048 | M20x125 | 37 | 100 | 17  | 25 | 162 | 30000  |
| 15049 | M20x150 | 37 | 100 | 17  | 25 | 187 | 30000  |
| 15050 | M20x175 | 37 | 100 | 17  | 25 | 212 | 30000  |
| 15051 | M20x200 | 37 | 100 | 17  | 25 | 237 | 30000  |
| 15052 | M20x225 | 37 | 100 | 17  | 25 | 262 | 30000  |
| 15053 | M20x250 | 37 | 100 | 17  | 25 | 287 | 30000  |
| 15054 | M24x75  | 37 | 100 | 17  | 25 | 113 | 30000  |
| 15055 | M24x100 | 38 | 100 | 20  | 25 | 138 | 30000  |
| 15056 | M24x125 | 38 | 100 | 20  | 25 | 163 | 30000  |
| 15057 | M24x150 | 38 | 100 | 20  | 25 | 188 | 30000  |
| 15058 | M24x175 | 38 | 100 | 20  | 25 | 213 | 30000  |
| 15059 | M24x200 | 38 | 100 | 20  | 25 | 238 | 30000  |
| 15060 | M24x225 | 38 | 100 | 20  | 25 | 263 | 30000  |
| 15061 | M24x250 | 38 | 100 | 20  | 25 | 288 | 30000  |

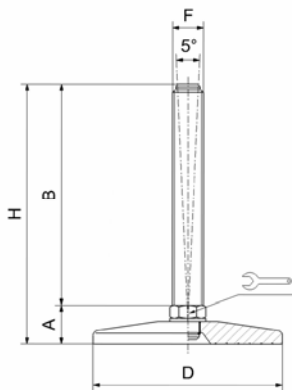
The above indicated load values refer to load measured at half length of the screw. In case of high vibration or by dynamic load these values should be reduced. Please consult your supplier.

| Type  | F x B   | A    | D   |  | G  | H     | Load N |
|-------|---------|------|-----|---|----|-------|--------|
| 15062 | M16x50  | 36,5 | 120 | 17  | 24 | 86,5  | 40000  |
| 15063 | M16x75  | 36,5 | 120 | 17  | 24 | 111,5 | 40000  |
| 15064 | M16x100 | 36,5 | 120 | 17  | 24 | 136,5 | 40000  |
| 15065 | M16x125 | 36,5 | 120 | 17  | 24 | 161,5 | 40000  |
| 15066 | M16x150 | 36,5 | 120 | 17  | 24 | 186,5 | 40000  |
| 15067 | M16x175 | 36,5 | 120 | 17  | 24 | 211,5 | 40000  |
| 15068 | M16x200 | 36,5 | 120 | 17  | 24 | 236,5 | 40000  |
| 15069 | M16x225 | 36,5 | 120 | 17  | 24 | 261,5 | 40000  |
| 15070 | M20x75  | 36,5 | 120 | 17  | 24 | 111,5 | 40000  |
| 15071 | M20x100 | 36,5 | 120 | 17  | 24 | 136,5 | 40000  |
| 15072 | M20x125 | 36,5 | 120 | 17  | 24 | 161,5 | 40000  |
| 15073 | M20x150 | 36,5 | 120 | 17  | 24 | 186,5 | 40000  |
| 15074 | M20x175 | 36,5 | 120 | 17  | 24 | 211,5 | 40000  |
| 15075 | M20x200 | 36,5 | 120 | 17  | 24 | 236,5 | 40000  |
| 15076 | M20x225 | 36,5 | 120 | 17  | 24 | 261,5 | 40000  |
| 15077 | M20x250 | 36,5 | 120 | 17  | 24 | 286,5 | 40000  |
| 15078 | M24x75  | 37,5 | 120 | 20  | 24 | 112,5 | 40000  |
| 15079 | M24x100 | 37,5 | 120 | 20  | 24 | 137,5 | 40000  |
| 15080 | M24x125 | 37,5 | 120 | 20  | 24 | 162,5 | 40000  |
| 15081 | M24x150 | 37,5 | 120 | 20  | 24 | 187,5 | 40000  |
| 15082 | M24x175 | 37,5 | 120 | 20  | 24 | 212,5 | 40000  |
| 15083 | M24x200 | 37,5 | 120 | 20  | 24 | 237,5 | 40000  |
| 15084 | M24x225 | 37,5 | 120 | 20  | 24 | 262,5 | 40000  |
| 15085 | M24x250 | 37,5 | 120 | 20  | 24 | 287,5 | 40000  |
| 15086 | M30x75  | 37,5 | 120 | 26  | 24 | 112,5 | 40000  |
| 15087 | M30x100 | 37,5 | 120 | 26  | 24 | 137,5 | 40000  |
| 15088 | M30x125 | 37,5 | 120 | 26  | 24 | 162,5 | 40000  |
| 15089 | M30x150 | 37,5 | 120 | 26  | 24 | 187,5 | 40000  |
| 15090 | M30x175 | 37,5 | 120 | 26  | 24 | 212,5 | 40000  |
| 15091 | M30x200 | 37,5 | 120 | 26  | 24 | 237,5 | 40000  |
| 15092 | M30x225 | 37,5 | 120 | 26  | 24 | 262,5 | 40000  |
| 15093 | M30x250 | 37,5 | 120 | 26  | 24 | 287,5 | 40000  |


| Type  | F x B   | A  | D   |  | G    | H   | Load N |
|-------|---------|----|-----|---|------|-----|--------|
| 15094 | M20x75  | 39 | 150 | 17  | 26,5 | 114 | 50000  |
| 15095 | M20x100 | 39 | 150 | 17  | 26,5 | 139 | 50000  |
| 15096 | M20x125 | 39 | 150 | 17  | 26,5 | 164 | 50000  |
| 15097 | M20x150 | 39 | 150 | 17  | 26,5 | 189 | 50000  |
| 15098 | M20x175 | 39 | 150 | 17  | 26,5 | 214 | 50000  |
| 15099 | M20x200 | 39 | 150 | 17  | 26,5 | 239 | 50000  |
| 15100 | M20x225 | 39 | 150 | 17  | 26,5 | 264 | 50000  |
| 15101 | M20x250 | 39 | 150 | 17  | 26,5 | 289 | 50000  |
| 15102 | M24x100 | 40 | 150 | 20  | 26,5 | 140 | 50000  |
| 15103 | M24x125 | 40 | 150 | 20  | 26,5 | 165 | 50000  |
| 15104 | M24x150 | 40 | 150 | 20  | 26,5 | 190 | 50000  |
| 15105 | M24x175 | 40 | 150 | 20  | 26,5 | 215 | 50000  |
| 15106 | M24x200 | 40 | 150 | 20  | 26,5 | 240 | 50000  |
| 15107 | M24x225 | 40 | 150 | 20  | 26,5 | 265 | 50000  |
| 15108 | M24x250 | 40 | 150 | 20  | 26,5 | 290 | 50000  |
| 15109 | M30x100 | 40 | 150 | 26  | 26,5 | 140 | 50000  |
| 15110 | M30x125 | 40 | 150 | 26  | 26,5 | 165 | 50000  |
| 15111 | M30x150 | 40 | 150 | 26  | 26,5 | 190 | 50000  |
| 15112 | M30x175 | 40 | 150 | 26  | 26,5 | 215 | 50000  |
| 15113 | M30x200 | 40 | 150 | 26  | 26,5 | 240 | 50000  |
| 15114 | M30x225 | 40 | 150 | 26  | 26,5 | 265 | 50000  |
| 15115 | M30x250 | 40 | 150 | 26  | 26,5 | 290 | 50000  |


The above indicated load values refer to load measured at half length of the screw. In case of high vibration or by dynamic load these values should be reduced. Please consult your supplier.


## MAR – 66 STEEL




### STEEL

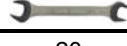
| Type       | F x B   | A  | D  |  | G    | H   | Load N |
|------------|---------|----|----|---|------|-----|--------|
| 15400/G    | M10x50  | 19 | 50 | 14  | 11,5 | 69  | 15000  |
| 15401/G    | M10x100 | 19 | 50 | 14  | 11,5 | 119 | 15000  |
| 15402/G    | M12x50  | 19 | 50 | 14  | 11,5 | 69  | 15000  |
| 15403/G    | M12x100 | 19 | 50 | 14  | 11,5 | 119 | 15000  |
| 15404/G    | M12x125 | 19 | 50 | 14  | 11,5 | 144 | 15000  |
| 15402/14/G | M14x50  | 19 | 50 | 14  | 11,5 | 69  | 15000  |
| 15403/14/G | M14x100 | 19 | 50 | 14  | 11,5 | 119 | 15000  |
| 15404/14/G | M14x125 | 19 | 50 | 14  | 11,5 | 144 | 15000  |

| Type       | F x B   | A  | D  |  | G    | H   | Load N |
|------------|---------|----|----|---|------|-----|--------|
| 15405/G    | M10x50  | 19 | 63 | 14  | 11,5 | 69  | 18000  |
| 15406/G    | M10x100 | 19 | 63 | 14  | 11,5 | 119 | 18000  |
| 15407/G    | M12x50  | 19 | 63 | 14  | 11,5 | 69  | 18000  |
| 15408/G    | M12x100 | 19 | 63 | 14  | 11,5 | 119 | 18000  |
| 15409/G    | M12x125 | 19 | 63 | 14  | 11,5 | 144 | 18000  |
| 15410/G    | M14x50  | 19 | 63 | 14  | 11,5 | 69  | 18000  |
| 15411/G    | M14x100 | 19 | 63 | 14  | 11,5 | 119 | 18000  |
| 15412/G    | M14x125 | 19 | 63 | 14  | 11,5 | 169 | 18000  |
| 15410/16/G | M16x50  | 19 | 63 | 14  | 11,5 | 69  | 18000  |
| 15411/16/G | M16x100 | 19 | 63 | 14  | 11,5 | 119 | 18000  |
| 15412/16/G | M16x125 | 19 | 63 | 14  | 11,5 | 169 | 18000  |

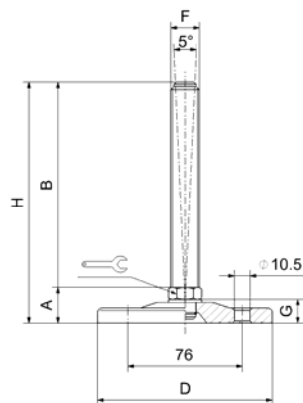
| Type       | F x B   | A  | D  |  | G    | H   | Load N |
|------------|---------|----|----|---|------|-----|--------|
| 15413/10/G | M10x50  | 19 | 80 | 14  | 11,5 | 69  | 20000  |
| 15414/10/G | M10x100 | 19 | 80 | 14  | 11,5 | 119 | 20000  |
| 15413/12/G | M12x50  | 19 | 80 | 14  | 11,5 | 69  | 20000  |
| 15415/12/G | M12x100 | 19 | 80 | 14  | 11,5 | 119 | 20000  |
| 15413/G    | M14x50  | 19 | 80 | 14  | 11,5 | 69  | 20000  |
| 15414/G    | M14x100 | 19 | 80 | 14  | 11,5 | 119 | 20000  |
| 15415/G    | M14x150 | 19 | 80 | 14  | 11,5 | 169 | 20000  |
| 15416/G    | M16x75  | 19 | 80 | 16  | 11,5 | 94  | 20000  |
| 15417/G    | M16x100 | 19 | 80 | 16  | 11,5 | 119 | 20000  |
| 15418/G    | M16x150 | 19 | 80 | 16  | 11,5 | 169 | 20000  |
| 15419/G    | M20x75  | 19 | 80 | 20  | 11,5 | 94  | 20000  |
| 15420/G    | M20x125 | 19 | 80 | 20  | 11,5 | 144 | 20000  |
| 15421/G    | M20x175 | 19 | 80 | 20  | 11,5 | 194 | 20000  |


The above indicated load values refer to load measured at half length of the screw. In case of high vibration or by dynamic load these values should be reduced. Please consult your supplier.

| Type    | F x B   | A  | D   |  | G  | H   | Load N |
|---------|---------|----|-----|--|----|-----|--------|
| 15422/G | M16x75  | 25 | 100 | 20   | 16 | 100 | 30000  |
| 15423/G | M16x100 | 25 | 100 | 20   | 16 | 125 | 30000  |
| 15424/G | M16x150 | 25 | 100 | 20   | 16 | 175 | 30000  |
| 15425/G | M20x75  | 25 | 100 | 20   | 16 | 100 | 30000  |
| 15426/G | M20x125 | 25 | 100 | 20   | 16 | 150 | 30000  |
| 15427/G | M20x175 | 25 | 100 | 20   | 16 | 200 | 30000  |
| 15428/G | M24x100 | 25 | 100 | 24   | 16 | 125 | 35000  |
| 15429/G | M24x150 | 25 | 100 | 24   | 16 | 175 | 35000  |
| 15430/G | M24x200 | 25 | 100 | 24   | 16 | 225 | 35000  |
| 15431/G | M30x125 | 26 | 100 | 30   | 16 | 151 | 35000  |
| 15432/G | M30x175 | 26 | 100 | 30   | 16 | 201 | 35000  |
| 15433/G | M30x225 | 26 | 100 | 30   | 16 | 251 | 35000  |


| Type    | F x B   | A  | D   |  | G  | H   | Load N |
|---------|---------|----|-----|---|----|-----|--------|
| 15434/G | M16x75  | 25 | 120 | 20  | 16 | 100 | 35000  |
| 15435/G | M16x100 | 25 | 120 | 20  | 16 | 125 | 35000  |
| 15436/G | M16x150 | 25 | 120 | 20  | 16 | 175 | 35000  |
| 15437/G | M20x75  | 25 | 120 | 20  | 16 | 100 | 40000  |
| 15438/G | M20x125 | 25 | 120 | 20  | 16 | 150 | 40000  |
| 15439/G | M20x175 | 25 | 120 | 20  | 16 | 200 | 40000  |
| 15440/G | M24x100 | 25 | 120 | 24  | 16 | 125 | 45000  |
| 15441/G | M24x150 | 25 | 120 | 24  | 16 | 175 | 45000  |
| 15442/G | M24x200 | 25 | 120 | 24  | 16 | 225 | 45000  |
| 15443/G | M30x125 | 26 | 120 | 30  | 16 | 151 | 45000  |
| 15444/G | M30x175 | 26 | 120 | 30  | 16 | 201 | 45000  |
| 15445/G | M30x225 | 26 | 120 | 30  | 16 | 251 | 45000  |


## MAR – 72 INOX / STEEL





| S T E E L |         |    |    |   |      |     |        |
|-----------|---------|----|----|---|------|-----|--------|
| Type      | F x B   | A  | D  |  | G    | H   | Load N |
| 15480/G   | M10x50  | 19 | 63 | 14  | 11,5 | 69  | 18000  |
| 15481/G   | M10x100 | 19 | 63 | 14  | 11,5 | 119 | 18000  |
| 15482/G   | M12x50  | 19 | 63 | 14  | 11,5 | 69  | 18000  |
| 15483/G   | M12x100 | 19 | 63 | 14  | 11,5 | 119 | 18000  |
| 15484/G   | M12x125 | 19 | 63 | 14  | 11,5 | 144 | 18000  |
| 15485/G   | M14x50  | 19 | 63 | 14  | 11,5 | 69  | 18000  |
| 15486/G   | M14x100 | 19 | 63 | 14  | 11,5 | 119 | 18000  |
| 15487/G   | M14x125 | 19 | 63 | 14  | 11,5 | 169 | 18000  |
| 15488/G   | M16x50  | 19 | 63 | 16  | 11,5 | 69  | 18000  |
| 15489/G   | M16x100 | 19 | 63 | 16  | 11,5 | 119 | 18000  |
| 15490/G   | M16x125 | 19 | 63 | 16  | 11,5 | 169 | 18000  |



| INOX Type | STEEL Type | F x B   | A INOX | A STEEL | D  |  |       | G    | H INOX | H STEEL | Load N |
|-----------|------------|---------|--------|---------|----|--|-------|------|--------|---------|--------|
|           |            |         |        |         |    | INOX   | STEEL |      |        |         |        |
| -         | 15500/10/G | M10X50  | -      | 20      | 80 | -  | 14    | 11,5 | -      | 70      | 20000  |
| -         | 15501/10/G | M10X100 | -      | 20      | 80 | -  | 14    | 11,5 | -      | 120     | 20000  |
| -         | 15500/12/G | M12X50  | -      | 20      | 80 | -  | 14    | 11,5 | -      | 70      | 20000  |
| -         | 15501/12/G | M12x100 | -      | 20      | 80 | -  | 14    | 11,5 | -      | 120     | 20000  |
| 15200/G   | 15500/G    | M14x50  | 20     | 20      | 80 | 14   | 14    | 11,5 | 70     | 70      | 20000  |
| 15201/G   | 15501/G    | M14x100 | 20     | 20      | 80 | 14   | 14    | 11,5 | 120    | 120     | 20000  |
| 15202/G   | 15502/G    | M14x150 | 20     | 20      | 80 | 14   | 14    | 11,5 | 170    | 170     | 20000  |
| 15203/G   | 15503/G    | M16x75  | 20     | 20      | 80 | 13   | 16    | 11,5 | 95     | 70      | 20000  |
| 15204/G   | 15504/G    | M16x100 | 20     | 20      | 80 | 13   | 16    | 11,5 | 120    | 120     | 20000  |
| 15205/G   | 15505/G    | M16x150 | 20     | 20      | 80 | 13   | 16    | 11,5 | 170    | 170     | 20000  |
| 15206/G   | 15506/G    | M20x75  | 24     | 20      | 80 | 17   | 20    | 11,5 | 99     | 95      | 25000  |
| 15207/G   | 15507/G    | M20x125 | 24     | 20      | 80 | 17   | 20    | 11,5 | 149    | 145     | 25000  |
| 15208/G   | 15508/G    | M20x175 | 24     | 20      | 80 | 17   | 20    | 11,5 | 199    | 195     | 25000  |

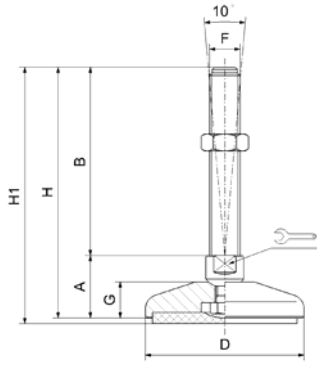
| INOX Type | STEEL Type | F x B   | A INOX | A STEEL | D   |  |       | G INOX | G STEEL | H INOX | H STEEL | Load N |
|-----------|------------|---------|--------|---------|-----|---|-------|--------|---------|--------|---------|--------|
|           |            |         |        |         |     | INOX  | STEEL |        |         |        |         |        |
| 15209/G   | 15509/G    | M16x75  | 29     | 25      | 100 | 17  | 20    | 16,5   | 16      | 104    | 100     | 30000  |
| 15210/G   | 15510/G    | M16x100 | 29     | 25      | 100 | 17  | 20    | 16,5   | 16      | 129    | 125     | 30000  |
| 15211/G   | 15511/G    | M16x150 | 29     | 25      | 100 | 17  | 20    | 16,5   | 16      | 179    | 175     | 30000  |
| 15212/G   | 15512/G    | M20x75  | 29     | 25      | 100 | 17  | 20    | 16,5   | 16      | 104    | 100     | 30000  |
| 15213/G   | 15513/G    | M20x125 | 29     | 25      | 100 | 17  | 20    | 16,5   | 16      | 154    | 150     | 30000  |
| 15214/G   | 15514/G    | M20x175 | 29     | 25      | 100 | 17  | 20    | 16,5   | 16      | 204    | 200     | 30000  |
| 15215/G   | 15515/G    | M24x100 | 30     | 25      | 100 | 20  | 24    | 16,5   | 16      | 130    | 125     | 35000  |
| 15216/G   | 15516/G    | M24x150 | 30     | 25      | 100 | 20  | 24    | 16,5   | 16      | 180    | 175     | 35000  |
| 15217/G   | 15517/G    | M24x200 | 30     | 25      | 100 | 20  | 24    | 16,5   | 16      | 230    | 225     | 35000  |
| 15218/G   | 15518/G    | M30x125 | 30     | 26      | 100 | 26  | 30    | 16,5   | 16      | 155    | 151     | 35000  |
| 15219/G   | 15519/G    | M30x175 | 30     | 26      | 100 | 26  | 30    | 16,5   | 16      | 205    | 201     | 35000  |
| 15220/G   | 15520/G    | M30x225 | 30     | 26      | 100 | 26  | 30    | 16,5   | 16      | 255    | 251     | 35000  |

| INOX Type | STEEL Type | F x B   | A INOX | A STEEL | D   |  |       | G INOX | G STEEL | H INOX | H STEEL | Load N |
|-----------|------------|---------|--------|---------|-----|---|-------|--------|---------|--------|---------|--------|
|           |            |         |        |         |     | INOX  | STEEL |        |         |        |         |        |
| 15221/G   | 15521/G    | M16x75  | 29     | 25      | 120 | 17  | 20    | 16,5   | 16      | 104    | 100     | 35000  |
| 15222/G   | 15522/G    | M16x100 | 29     | 25      | 120 | 17  | 20    | 16,5   | 16      | 129    | 125     | 35000  |
| 15223/G   | 15523/G    | M16x150 | 29     | 25      | 120 | 17  | 20    | 16,5   | 16      | 179    | 175     | 35000  |
| 15224/G   | 15524/G    | M20x75  | 29     | 25      | 120 | 17  | 20    | 16,5   | 16      | 104    | 100     | 40000  |
| 15225/G   | 15525/G    | M20x125 | 29     | 25      | 120 | 17  | 20    | 16,5   | 16      | 154    | 150     | 40000  |
| 15226/G   | 15526/G    | M20x175 | 29     | 25      | 120 | 17  | 20    | 16,5   | 16      | 204    | 200     | 40000  |
| 15227/G   | 15527/G    | M24x100 | 30     | 25      | 120 | 20  | 24    | 16,5   | 16      | 130    | 125     | 45000  |
| 15228/G   | 15528/G    | M24x150 | 30     | 25      | 120 | 20  | 24    | 16,5   | 16      | 180    | 175     | 45000  |
| 15229/G   | 15529/G    | M24x200 | 30     | 25      | 120 | 20  | 24    | 16,5   | 16      | 230    | 225     | 45000  |
| 15230/G   | 15530/G    | M30x125 | 30     | 26      | 120 | 26  | 30    | 16,5   | 16      | 155    | 151     | 45000  |
| 15231/G   | 15531/G    | M30x175 | 30     | 26      | 120 | 26  | 30    | 16,5   | 16      | 205    | 201     | 45000  |
| 15232/G   | 15532/G    | M30x225 | 30     | 26      | 120 | 26  | 30    | 16,5   | 16      | 255    | 251     | 45000  |

| I N O X |         |    |     |   |    |      |     |        |
|---------|---------|----|-----|---|----|------|-----|--------|
| Type    | F x B   | A  | D   |  |    | G    | H   | Load N |
| 15233/G | M20x75  | 29 | 150 | 17  | 20 | 16,5 | 104 | 50000  |
| 15234/G | M20x125 | 29 | 150 | 17  | 20 | 16,5 | 154 | 50000  |
| 15235/G | M20x175 | 29 | 150 | 17  | 20 | 16,5 | 204 | 50000  |
| 15236/G | M24x100 | 30 | 150 | 20  | 24 | 16,5 | 130 | 55000  |
| 15237/G | M24x150 | 30 | 150 | 20  | 24 | 16,5 | 180 | 55000  |
| 15238/G | M24x200 | 30 | 150 | 20  | 24 | 16,5 | 230 | 55000  |
| 15239/G | M30x125 | 30 | 150 | 26  | 30 | 16,5 | 155 | 55000  |
| 15240/G | M30x175 | 30 | 150 | 26  | 30 | 16,5 | 205 | 55000  |
| 15241/G | M30x225 | 30 | 150 | 26  | 30 | 16,5 | 255 | 55000  |



## MAR – 50 INOX / STEEL



INOX



STEEL



| INOX Type | STEEL Type | F x B   | A  | D  | Wrench |       | G  | H   | H1  | Load N |
|-----------|------------|---------|----|----|--------|-------|----|-----|-----|--------|
|           |            |         |    |    | INOX   | STEEL |    |     |     |        |
| 11335     | 11299      | M16X100 | 33 | 80 | 20     | 24    | 19 | 133 | 136 | 30000  |
| 11339     | 11303      | M16X150 | 33 | 80 | 20     | 24    | 19 | 183 | 186 | 30000  |
| 11343     | 11307      | M16X200 | 33 | 80 | 20     | 24    | 19 | 233 | 236 | 30000  |
| 11335/20  | 11299/20   | M20X100 | 33 | 80 | 20     | 24    | 19 | 133 | 136 | 35000  |
| 11339/20  | 11303/20   | M20X150 | 33 | 80 | 20     | 24    | 19 | 183 | 186 | 35000  |
| 11343/20  | 11307/20   | M20X200 | 33 | 80 | 20     | 24    | 19 | 233 | 236 | 35000  |
| 11345/20  | 11309/20   | M20X225 | 33 | 80 | 20     | 24    | 19 | 258 | 261 | 35000  |
| 11335/24  | 11299/24   | M24X100 | 33 | 80 | 20     | 24    | 19 | 133 | 136 | 40000  |
| 11339/24  | 11303/24   | M24X150 | 33 | 80 | 20     | 24    | 19 | 183 | 186 | 40000  |
| 11343/24  | 11307/24   | M24X200 | 33 | 80 | 20     | 24    | 19 | 233 | 236 | 40000  |
| 11345/24  | 11309/24   | M24X225 | 33 | 80 | 20     | 24    | 19 | 258 | 261 | 40000  |

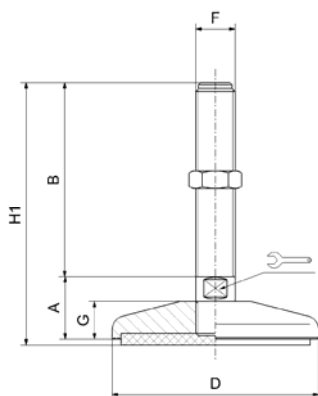
| INOX Type | STEEL Type | F x B   | A  | D   | Wrench |       | G  | H   | H1  | Load N |
|-----------|------------|---------|----|-----|--------|-------|----|-----|-----|--------|
|           |            |         |    |     | INOX   | STEEL |    |     |     |        |
| 11383     | 11347      | M20X100 | 34 | 100 | 20     | 24    | 20 | 134 | 137 | 40000  |
| 11387     | 11351      | M20X150 | 34 | 100 | 20     | 24    | 20 | 184 | 187 | 40000  |
| 11391     | 11355      | M20X200 | 34 | 100 | 20     | 24    | 20 | 234 | 237 | 40000  |
| 11393     | 11357      | M20X225 | 34 | 100 | 20     | 24    | 20 | 259 | 262 | 40000  |
| 11383/24  | 11347/24   | M24X100 | 34 | 100 | 20     | 24    | 20 | 134 | 137 | 45000  |
| 11387/24  | 11351/24   | M24X150 | 34 | 100 | 20     | 24    | 20 | 184 | 187 | 45000  |
| 11391/24  | 11355/24   | M24X200 | 34 | 100 | 20     | 24    | 20 | 234 | 237 | 45000  |
| 11393/24  | 11357/24   | M24X225 | 34 | 100 | 26     | 30    | 20 | 259 | 262 | 45000  |
| 11383/30  | 11347/30   | M30X100 | 34 | 100 | 26     | 30    | 20 | 134 | 137 | 50000  |
| 11387/30  | 11351/30   | M30X150 | 34 | 100 | 26     | 30    | 20 | 184 | 187 | 50000  |
| 11391/30  | 11355/30   | M30X200 | 34 | 100 | 26     | 30    | 20 | 234 | 237 | 50000  |

| INOX Type | STEEL Type | F x B   | A    |       | D   | Wrench |       | G  | H    |       | H1  |     | Load N |
|-----------|------------|---------|------|-------|-----|--------|-------|----|------|-------|-----|-----|--------|
|           |            |         | INOX | STEEL |     | INOX   | STEEL |    | INOX | STEEL |     |     |        |
| 11431     | 11395      | M20X100 | 36   | 36    | 120 | 20     | 24    | 22 | 136  | 136   | 139 | 139 | 45000  |
| 11435     | 11399      | M20X150 | 36   | 36    | 120 | 20     | 24    | 22 | 186  | 186   | 189 | 189 | 45000  |
| 11439     | 11403      | M20X200 | 36   | 36    | 120 | 20     | 24    | 22 | 236  | 236   | 239 | 239 | 45000  |
| 11441     | 11405      | M20X225 | 36   | 36    | 120 | 20     | 24    | 22 | 261  | 261   | 264 | 264 | 45000  |
| 11431/24  | 11395/24   | M24X100 | 36   | 36    | 120 | 20     | 24    | 22 | 136  | 136   | 139 | 139 | 50000  |
| 11435/24  | 11399/24   | M24X150 | 36   | 36    | 120 | 20     | 24    | 22 | 186  | 186   | 189 | 189 | 50000  |
| 11439/24  | 11403/24   | M24X200 | 36   | 36    | 120 | 20     | 24    | 22 | 236  | 236   | 239 | 239 | 50000  |
| 11441/24  | 11405/24   | M24X225 | 36   | 36    | 120 | 20     | 24    | 22 | 261  | 261   | 264 | 264 | 50000  |
| 11431/30  | 11395/30   | M30X100 | 36   | 36    | 120 | 20     | 24    | 22 | 142  | 138   | 141 | 145 | 60000  |
| 11435/30  | 11399/30   | M30X150 | 42   | 38    | 120 | 26     | 30    | 22 | 192  | 188   | 191 | 195 | 60000  |
| 11439/30  | 11403/30   | M30X200 | 42   | 38    | 120 | 26     | 30    | 22 | 242  | 238   | 241 | 275 | 60000  |
| 11441/30  | 11405/30   | M30X225 | 42   | 38    | 120 | 26     | 30    | 22 | 267  | 263   | 266 | 270 | 60000  |

The above indicated load values refer to load measured at half length of the screw. In case of high vibration or by dynamic load these values should be reduced. Please consult your supplier.

| INOX Type | STEEL Type | F x B   | A    |       | D   | Wrench |       | G  | H    |       | H1   |       | Load N |
|-----------|------------|---------|------|-------|-----|--------|-------|----|------|-------|------|-------|--------|
|           |            |         | INOX | STEEL |     | INOX   | STEEL |    | INOX | STEEL | INOX | STEEL |        |
| 11479     | 11443      | M20X100 | 37   | 36    | 159 | 20     | 24    | 23 | 137  | 136   | 140  | 139   | 50000  |
| 11483     | 11447      | M20X150 | 37   | 36    | 159 | 20     | 24    | 23 | 187  | 186   | 190  | 189   | 50000  |
| 11487     | 11451      | M20X200 | 37   | 36    | 159 | 20     | 24    | 23 | 237  | 236   | 240  | 239   | 50000  |
| 11489     | 11453      | M20X225 | 37   | 36    | 159 | 20     | 24    | 23 | 262  | 261   | 265  | 264   | 50000  |
| 11479/24  | 11443/24   | M24X100 | 38   | 36    | 159 | 20     | 24    | 23 | 138  | 136   | 141  | 139   | 60000  |
| 11483/24  | 11447/24   | M24X150 | 38   | 36    | 159 | 20     | 24    | 23 | 188  | 186   | 191  | 189   | 60000  |
| 11487/24  | 11451/24   | M24X200 | 38   | 36    | 159 | 20     | 24    | 23 | 238  | 236   | 241  | 239   | 60000  |
| 11489/24  | 11453/24   | M24X225 | 38   | 36    | 159 | 20     | 24    | 23 | 263  | 261   | 266  | 264   | 60000  |
| 11479/30  | 11443/30   | M30X100 | 42   | 38    | 159 | 26     | 30    | 23 | 142  | 138   | 145  | 141   | 70000  |
| 11483/30  | 11447/30   | M30X150 | 42   | 38    | 159 | 26     | 30    | 23 | 192  | 188   | 195  | 191   | 70000  |
| 11487/30  | 11451/30   | M30X200 | 42   | 38    | 159 | 26     | 30    | 23 | 242  | 238   | 245  | 241   | 70000  |
| 11489/30  | 11453/30   | M30X225 | 42   | 38    | 159 | 26     | 30    | 23 | 267  | 263   | 270  | 266   | 70000  |

## MAR – 54 INOX / STEEL



INOX



STEEL



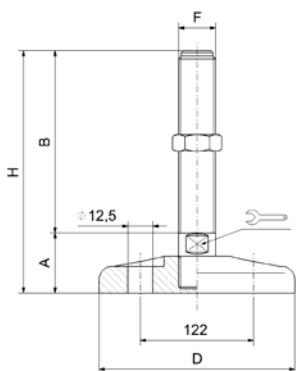
| INOX Type | STEEL Type | F x B   | A    |       | D  | Wrench |       | G  | H1    |       | Load N |
|-----------|------------|---------|------|-------|----|--------|-------|----|-------|-------|--------|
|           |            |         | INOX | STEEL |    | INOX   | STEEL |    | INOX  | STEEL |        |
| 11527     | 11491      | M16X100 | 34,5 | 31    | 80 | 17     | 20    | 22 | 137,5 | 134   | 30000  |
| 11531     | 11495      | M16X150 | 34,5 | 31    | 80 | 17     | 20    | 22 | 187,5 | 184   | 30000  |
| 11535     | 11499      | M16X200 | 34,5 | 31    | 80 | 17     | 20    | 22 | 237,5 | 234   | 30000  |
| 11575     | 11539      | M20X100 | 34,5 | 31    | 80 | 20     | 24    | 22 | 137,5 | 134   | 35000  |
| 11579     | 11543      | M20X150 | 34,5 | 31    | 80 | 20     | 24    | 22 | 187,5 | 184   | 35000  |
| 11583     | 11547      | M20X200 | 34,5 | 31    | 80 | 20     | 24    | 22 | 237,5 | 234   | 35000  |
| 11585     | 11549      | M20X225 | 34,5 | 31    | 80 | 20     | 24    | 22 | 262,5 | 260   | 35000  |
| 11575/24  | 11539/24   | M24X100 | 36   | 31    | 80 | 20     | 24    | 22 | 139   | 134   | 40000  |
| 11579/24  | 11543/24   | M24X150 | 36   | 31    | 80 | 20     | 24    | 22 | 189   | 184   | 40000  |
| 11583/24  | 11547/24   | M24X200 | 36   | 31    | 80 | 20     | 24    | 22 | 239   | 234   | 40000  |
| 11585/24  | 11549/24   | M24X225 | 36   | 31    | 80 | 20     | 24    | 22 | 264   | 260   | 40000  |

| INOX Type | STEEL Type | F x B   | A    |       | D   | Wrench |       | G  | H1   |       | Load N |
|-----------|------------|---------|------|-------|-----|--------|-------|----|------|-------|--------|
|           |            |         | INOX | STEEL |     | INOX   | STEEL |    | INOX | STEEL |        |
| 11629     | 11587      | M16X100 | 36   | 33    | 100 | 20     | 24    | 23 | 139  | 136   | 35000  |
| 11633     | 11591      | M16X150 | 36   | 33    | 100 | 20     | 24    | 23 | 189  | 186   | 35000  |
| 11637     | 11595      | M16X200 | 36   | 33    | 100 | 20     | 24    | 23 | 239  | 236   | 35000  |
| 11685     | 11643      | M20X100 | 36   | 33    | 100 | 20     | 24    | 23 | 139  | 136   | 40000  |
| 11689     | 11647      | M20X150 | 36   | 33    | 100 | 20     | 24    | 23 | 189  | 186   | 40000  |
| 11693     | 11651      | M20X200 | 36   | 33    | 100 | 20     | 24    | 23 | 239  | 236   | 40000  |
| 11697     | 11655      | M20X250 | 36   | 33    | 100 | 20     | 24    | 23 | 289  | 286   | 40000  |
| 11741     | 11699      | M24X100 | 37   | 33    | 100 | 20     | 24    | 23 | 139  | 136   | 45000  |
| 11745     | 11703      | M24X150 | 37   | 33    | 100 | 20     | 24    | 23 | 189  | 186   | 45000  |
| 11749     | 11707      | M24X200 | 37   | 33    | 100 | 20     | 24    | 23 | 240  | 236   | 45000  |
| 11753     | 11711      | M24X250 | 37   | 33    | 100 | 20     | 24    | 23 | 290  | 286   | 45000  |

| INOX Type | STEEL Type | F x B   | A INOX | A STEEL | D   | Wrench |       | G  | H1 INOX | H1 STEEL | Load N |
|-----------|------------|---------|--------|---------|-----|--------|-------|----|---------|----------|--------|
|           |            |         |        |         |     | INOX   | STEEL |    |         |          |        |
| 11797     | 11755      | M20X100 | 36     | 33      | 120 | 20     | 24    | 23 | 139     | 136      | 45000  |
| 11801     | 11759      | M20X150 | 36     | 33      | 120 | 20     | 24    | 23 | 189     | 186      | 45000  |
| 11805     | 11763      | M20X200 | 36     | 33      | 120 | 20     | 24    | 23 | 239     | 236      | 45000  |
| 11809     | 11767      | M20X250 | 36     | 33      | 120 | 20     | 24    | 23 | 289     | 286      | 45000  |
| 11853     | 11811      | M24X100 | 36     | 33      | 120 | 20     | 24    | 23 | 139     | 136      | 50000  |
| 11857     | 11815      | M24X150 | 36     | 33      | 120 | 20     | 24    | 23 | 189     | 186      | 50000  |
| 11861     | 11819      | M24X200 | 36     | 33      | 120 | 20     | 24    | 23 | 239     | 236      | 50000  |
| 11865     | 11823      | M24X250 | 37     | 33      | 120 | 26     | 30    | 23 | 289     | 286      | 50000  |
| 11909     | 11867      | M30X100 | 37     | 33      | 120 | 26     | 30    | 23 | 140     | 136      | 60000  |
| 11913     | 11871      | M30X150 | 37     | 33      | 120 | 26     | 30    | 23 | 190     | 186      | 60000  |
| 11917     | 11875      | M30X200 | 37     | 33      | 120 | 26     | 30    | 23 | 240     | 236      | 60000  |

| INOX Type | STEEL Type | F x B   | A INOX | A STEEL | D   | Wrench |       | G  | H1 INOX | H1 STEEL | Load N |
|-----------|------------|---------|--------|---------|-----|--------|-------|----|---------|----------|--------|
|           |            |         |        |         |     | INOX   | STEEL |    |         |          |        |
| 11965     | 11923      | M20X100 | 39     | 36      | 159 | 20     | 24    | 26 | 142     | 139      | 50000  |
| 11969     | 11927      | M20X150 | 39     | 36      | 159 | 20     | 24    | 26 | 192     | 189      | 50000  |
| 11973     | 11931      | M20X200 | 39     | 36      | 159 | 20     | 24    | 26 | 242     | 239      | 50000  |
| 11977     | 11935      | M20X250 | 39     | 36      | 159 | 20     | 24    | 26 | 292     | 289      | 50000  |
| 12021     | 11979      | M24X100 | 39     | 36      | 159 | 20     | 24    | 26 | 142     | 139      | 60000  |
| 12025     | 11983      | M24X150 | 39     | 36      | 159 | 20     | 24    | 26 | 192     | 189      | 60000  |
| 12029     | 11987      | M24X200 | 39     | 36      | 159 | 20     | 24    | 26 | 242     | 239      | 60000  |
| 12033     | 11991      | M24X250 | 39     | 36      | 159 | 20     | 24    | 26 | 292     | 289      | 60000  |
| 12077     | 12035      | M30X100 | 40     | 36      | 159 | 26     | 30    | 26 | 143     | 139      | 70000  |
| 12081     | 12039      | M30X150 | 40     | 36      | 159 | 26     | 30    | 26 | 193     | 189      | 70000  |
| 12085     | 12043      | M30X200 | 40     | 36      | 159 | 26     | 30    | 26 | 243     | 239      | 70000  |
| 12089     | 12047      | M30x250 | 40     | 36      | 159 | 26     | 30    | 26 | 293     | 289      | 70000  |

## MAR – 57 INOX / STEEL



INOX

STEEL

| INOX Type | STEEL Type | F x B   | A INOX | A STEEL | D   | Wrench |       | G  | H INOX | H STEEL | Load N |
|-----------|------------|---------|--------|---------|-----|--------|-------|----|--------|---------|--------|
|           |            |         |        |         |     | INOX   | STEEL |    |        |         |        |
| 12132/G   | 12090/G    | M16X100 | 33     | 29      | 100 | 20     | 24    | 20 | 133    | 129     | 35000  |
| 12136/G   | 12094/G    | M16X150 | 33     | 29      | 100 | 20     | 24    | 20 | 183    | 179     | 35000  |
| 12140/G   | 12098/G    | M16X200 | 33     | 29      | 100 | 20     | 24    | 20 | 233    | 229     | 35000  |
| 12188/G   | 12146/G    | M20X100 | 33     | 29      | 100 | 20     | 24    | 20 | 133    | 129     | 40000  |
| 12192/G   | 12150/G    | M20X150 | 33     | 29      | 100 | 20     | 24    | 20 | 183    | 179     | 40000  |
| 12196/G   | 12154/G    | M20X200 | 33     | 29      | 100 | 20     | 24    | 20 | 233    | 229     | 40000  |
| 12200/G   | 12158/G    | M20X250 | 33     | 29      | 100 | 20     | 24    | 20 | 283    | 279     | 40000  |
| 12244/G   | 12202/G    | M24X100 | 33     | 29      | 100 | 20     | 24    | 20 | 134    | 129     | 45000  |
| 12248/G   | 12206/G    | M24X150 | 34     | 29      | 100 | 20     | 24    | 20 | 184    | 179     | 45000  |

|         |         |         |    |    |     |    |    |    |     |     |       |
|---------|---------|---------|----|----|-----|----|----|----|-----|-----|-------|
| 12252/G | 12210/G | M24X200 | 34 | 29 | 100 | 20 | 24 | 20 | 234 | 229 | 45000 |
| 12256/G | 12214/G | M24X250 | 34 | 29 | 100 | 20 | 24 | 20 | 284 | 279 | 45000 |
| 12132/G | 12090/G | M16X100 | 34 | 29 | 100 | 20 | 24 | 20 | 133 | 129 | 35000 |

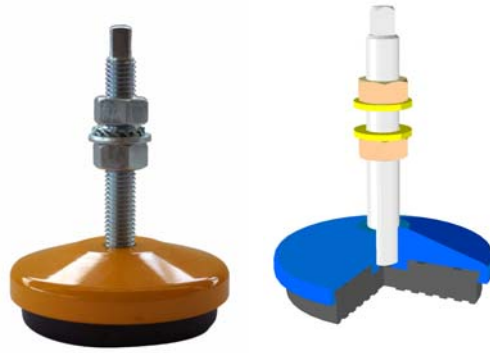
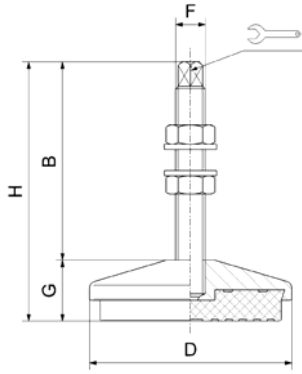
| INOX Type  | STEEL Type | F x B   | A INOX | A STEEL | D   | Wrench |       | G  | H INOX | H STEEL | Load N |
|------------|------------|---------|--------|---------|-----|--------|-------|----|--------|---------|--------|
|            |            |         |        |         |     | INOX   | STEEL |    |        |         |        |
| 12356/G    | 12314/G    | M20X100 | 35     | 31      | 120 | 20     | 24    | 22 | 135    | 131     | 45000  |
| 12360/G    | 12318/G    | M20X150 | 35     | 31      | 120 | 20     | 24    | 22 | 185    | 181     | 45000  |
| 12364/G    | 12322/G    | M20X200 | 35     | 31      | 120 | 20     | 24    | 22 | 235    | 231     | 45000  |
| 12368/G    | 12326/G    | M20X250 | 35     | 31      | 120 | 20     | 24    | 22 | 285    | 281     | 45000  |
| 12412/G    | 12370/G    | M24X100 | 36     | 31      | 120 | 20     | 24    | 22 | 136    | 131     | 50000  |
| 12416/G    | 12374/G    | M24X150 | 36     | 31      | 120 | 20     | 24    | 22 | 186    | 181     | 50000  |
| 12420/G    | 12378/G    | M24X200 | 36     | 31      | 120 | 20     | 24    | 22 | 231    | 231     | 50000  |
| 12424/G    | 12382/G    | M24X250 | 36     | 31      | 120 | 20     | 24    | 22 | 281    | 281     | 50000  |
| 12412/30/G | 12370/30/G | M30X100 | 36     | 31      | 120 | 26     | 30    | 22 | 136    | 131     | 60000  |
| 12416/30/G | 12374/30/G | M30X150 | 36     | 31      | 120 | 26     | 30    | 22 | 186    | 181     | 60000  |
| 12420/30/G | 12378/30/G | M30X200 | 36     | 31      | 120 | 26     | 30    | 22 | 236    | 231     | 60000  |
| 12424/30/G | 12382/30/G | M30X250 | 36     | 31      | 120 | 26     | 30    | 22 | 286    | 281     | 60000  |

| INOX Type | STEEL Type | F x B   | A INOX | A STEEL | D   | Wrench |       | G  | H INOX | H STEEL | Load N |
|-----------|------------|---------|--------|---------|-----|--------|-------|----|--------|---------|--------|
|           |            |         |        |         |     | INOX   | STEEL |    |        |         |        |
| 12468/G   | 12426/G    | M20X100 | 36     | 32      | 159 | 20     | 24    | 23 | 136    | 132     | 50000  |
| 12472/G   | 12430/G    | M20X150 | 36     | 32      | 159 | 20     | 24    | 23 | 186    | 182     | 50000  |
| 12476/G   | 12434/G    | M20X200 | 36     | 32      | 159 | 20     | 24    | 23 | 236    | 232     | 50000  |
| 12480/G   | 12438/G    | M20X250 | 36     | 32      | 159 | 20     | 24    | 23 | 286    | 282     | 50000  |
| 12524/G   | 12482/G    | M24X100 | 37     | 32      | 159 | 20     | 24    | 23 | 137    | 132     | 60000  |
| 12528/G   | 12486/G    | M24X150 | 37     | 32      | 159 | 20     | 24    | 23 | 187    | 182     | 60000  |
| 12532/G   | 12490/G    | M24X200 | 37     | 32      | 159 | 20     | 24    | 23 | 237    | 232     | 60000  |
| 12536/G   | 12494/G    | M24X250 | 37     | 32      | 159 | 20     | 24    | 23 | 287    | 282     | 60000  |
| 12580/G   | 12538/G    | M30X100 | 37     | 32      | 159 | 26     | 30    | 23 | 137    | 132     | 70000  |
| 12584/G   | 12542/G    | M30X150 | 37     | 32      | 159 | 26     | 30    | 23 | 187    | 182     | 70000  |
| 12588/G   | 12546/G    | M30X200 | 37     | 32      | 159 | 26     | 30    | 23 | 237    | 232     | 70000  |
| 12592/G   | 12550/G    | M30X250 | 37     | 32      | 159 | 26     | 30    | 23 | 287    | 282     | 70000  |


The above indicated load values refer to load measured at half length of the screw. In case of high vibration or by dynamic load these values should be reduced. Please consult your supplier.



# MAR – 115 INOX / STEEL / YELLOW



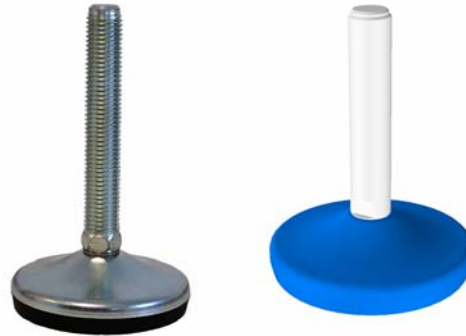
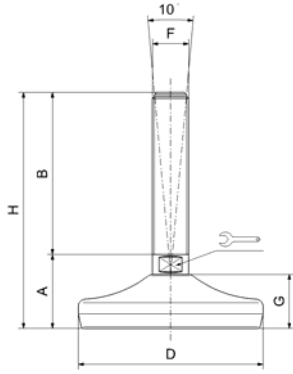
## INOX/STEEL/YELLOW

| Type   | F x B   | D   |  | G  | H   | Load N<br>DINAMIC | Load N<br>STATIC |
|--------|---------|-----|---|----|-----|-------------------|------------------|
| 13180V | M12x83  | 84  | 8   | 30 | 113 | 3000              | 6000             |
| 13190V | M14x121 | 104 | 9   | 34 | 155 | 6000              | 11000            |
| 13200V | M16x125 | 120 | 10  | 37 | 162 | 7000              | 13000            |
| 13210V | M16x128 | 140 | 10  | 45 | 173 | 8000              | 16000            |
| 13220V | M20x135 | 160 | 13  | 45 | 180 | 12000             | 25000            |
| 13230V | M20x135 | 180 | 13  | 45 | 180 | 17000             | 35000            |
| 13232V | M24x135 | 230 | 16  | 55 | 190 | 25000             | 50000            |
| 13240Z | M12x83  | 84  | 8   | 30 | 113 | 3000              | 6000             |
| 13250Z | M14x121 | 104 | 9   | 34 | 155 | 6000              | 11000            |
| 13260Z | M16x125 | 120 | 10  | 37 | 162 | 7000              | 13000            |
| 13270Z | M16x128 | 140 | 10  | 45 | 173 | 8000              | 16000            |
| 13280Z | M20x135 | 160 | 13  | 45 | 180 | 12000             | 25000            |
| 13290Z | M20x135 | 180 | 13  | 45 | 180 | 17000             | 35000            |
| 13292Z | M24x135 | 230 | 16  | 55 | 190 | 25000             | 50000            |
| 13300I | M12x83  | 84  | 8   | 30 | 113 | 3000              | 6000             |
| 13310I | M14x121 | 104 | 9   | 34 | 155 | 6000              | 11000            |
| 13320I | M16x125 | 120 | 10  | 37 | 162 | 7000              | 13000            |
| 13330I | M16x128 | 140 | 10  | 45 | 173 | 8000              | 16000            |
| 13340I | M20x135 | 160 | 13  | 45 | 180 | 12000             | 25000            |
| 13350I | M20x135 | 180 | 13  | 45 | 180 | 17000             | 35000            |

V=yellow painted / gelb / sárga festés    Z=galvanized steel / Kromatiert / galvanózott    I = inox / A2 / rozsdamentes



## MAR – 129 INOX / STEEL




INOX/STEEL

| INOX Type | STEEL Type | F x B   | A  | D  | 🔧    |       | G  | H INOX | H STEEL | Load N |
|-----------|------------|---------|----|----|------|-------|----|--------|---------|--------|
|           |            |         |    |    | INOX | STEEL |    |        |         |        |
| 24500     | 25800      | M10x50  | 29 | 50 | 14   | 14    | 19 | 79     | 79      | 4000   |
| 24502     | -          | M10x75  | 29 | 50 | 14   | -     | 19 | 104    | -       | 4000   |
| 24504     | 25802      | M10x100 | 29 | 50 | 14   | 14    | 19 | 129    | 129     | 4000   |
| 24506     | -          | M10x125 | 29 | 50 | 14   | -     | 19 | 154    | -       | 4000   |
| 24600     | 25810      | M12x50  | 29 | 50 | 14   | 14    | 19 | 79     | 79      | 4000   |
| 24602     | -          | M12x75  | 29 | 50 | 14   | -     | 19 | 104    | -       | 4000   |
| 24604     | 25812      | M12x100 | 29 | 50 | 14   | 14    | 19 | 129    | 129     | 4000   |
| 24606     | -          | M12x125 | 29 | 50 | 14   | -     | 19 | 154    | -       | 4000   |
| -         | 25814      | M12x150 | 29 | 50 | -    | 14    | 19 | -      | 179     | 4000   |
| -         | 25820      | M14x50  | 29 | 50 | -    | 14    | 19 | -      | 104     | 4000   |
| 24700     | -          | M14x75  | 29 | 50 | 14   | -     | 19 | 129    | -       | 4000   |
| 24702     | 25822      | M14x100 | 29 | 50 | 14   | 14    | 19 | 154    | 129     | 4000   |
| 24704     | -          | M14x125 | 29 | 50 | 14   | -     | 19 | 79     | -       | 4000   |
| 24706     | 25824      | M14x150 | 29 | 50 | 14   | 14    | 19 | 104    | 179     | 4000   |
| 24800     | 25830      | M16x75  | 34 | 50 | 13   | 16    | 19 | 129    | 104     | 4000   |
| 24802     | 25832      | M16x100 | 34 | 50 | 13   | 16    | 19 | 154    | 129     | 4000   |
| 24804     | -          | M16x125 | 34 | 50 | 13   | -     | 19 | 79     | -       | 4000   |
| 24806     | 25834      | M16x150 | 34 | 50 | 13   | 16    | 19 | 104    | 179     | 4000   |
| 24500     | -          | M10x50  | 29 | 50 | 14   | -     | 19 | 129    | -       | 4000   |
| 24502     | -          | M10x75  | 29 | 50 | 14   | -     | 19 | 154    | -       | 4000   |
| 24504     | -          | M10x100 | 29 | 50 | 14   | -     | 19 | 79     | -       | 4000   |
| 24506     | -          | M10x125 | 29 | 50 | 14   | -     | 19 | 104    | -       | 4000   |
| 24600     | -          | M12x50  | 29 | 50 | 14   | -     | 19 | 129    | -       | 4000   |
| 24602     | -          | M12x75  | 29 | 50 | 14   | -     | 19 | 154    | -       | 4000   |
| 24604     | -          | M12x100 | 29 | 50 | 14   | -     | 19 | 79     | -       | 4000   |
| 24606     | -          | M12x125 | 29 | 50 | 14   | -     | 19 | 104    | -       | 4000   |

| INOX Type | STEEL Type | F x B   | A  | D  | 🔧    |       | G  | H INOX | H STEEL | Load N |
|-----------|------------|---------|----|----|------|-------|----|--------|---------|--------|
|           |            |         |    |    | INOX | STEEL |    |        |         |        |
| 24900/10  | 26000      | M10x50  | 35 | 80 | 14   | 14    | 25 | 85     | 85      | 10000  |
| 25000/10  | -          | M10x75  | 35 | 80 | 14   | -     | 25 | 110    | -       | 10000  |
| 25002/10  | 26004      | M10x100 | 35 | 80 | 14   | 14    | 25 | 135    | 135     | 10000  |
| 25004/10  | -          | M10x125 | 35 | 80 | 14   | -     | 25 | 160    | -       | 10000  |
| 24900/12  | 26010      | M12x50  | 35 | 80 | 14   | 14    | 25 | 85     | 85      | 10000  |
| 25000/12  | -          | M12x75  | 35 | 80 | 14   | -     | 25 | 110    | -       | 10000  |
| 25002/12  | 26014      | M12x100 | 35 | 80 | 14   | 14    | 25 | 135    | 135     | 10000  |
| 25004/12  | -          | M12x125 | 35 | 80 | 14   | -     | 25 | 160    | -       | 10000  |
| 25006/12  | 26018      | M12x150 | 35 | 80 | 14   | 14    | 25 | 185    | 185     | 10000  |
| -         | 26022      | 14x50   | 35 | 80 | -    | 14    | 25 | -      | 110     | 10000  |
| 25000     | -          | M14x75  | 35 | 80 | 14   | -     | 25 | 110    | -       | 10000  |
| 25002     | 26024      | M14x100 | 35 | 80 | 14   | 14    | 25 | 135    | 135     | 10000  |
| 25004     | -          | M14x125 | 35 | 80 | 14   | -     | 25 | 160    | -       | 10000  |



|       |       |         |    |    |    |    |    |     |     |       |
|-------|-------|---------|----|----|----|----|----|-----|-----|-------|
| 25006 | 26028 | M14x150 | 35 | 80 | 14 | 14 | 25 | 185 | 185 | 10000 |
| 25008 | -     | M14x175 | 35 | 80 | 14 | -  | 25 | 210 | -   | 10000 |
| 25020 | 26034 | M16x75  | 35 | 80 | 13 | 16 | 25 | 110 | 110 | 10000 |
| 25022 | 26036 | M16x100 | 35 | 80 | 13 | 16 | 25 | 135 | 135 | 10000 |
| 25024 | -     | M16x125 | 35 | 80 | 13 | -  | 25 | 160 | -   | 10000 |
| 25026 | 26040 | M16x150 | 35 | 80 | 13 | 16 | 25 | 185 | 185 | 10000 |
| 25028 | -     | M16x175 | 35 | 80 | 13 | -  | 25 | 210 | -   | 10000 |
| 25040 | 26050 | M20x75  | 38 | 80 | 17 | 20 | 25 | 113 | 111 | 10000 |
| 25042 | 26052 | M20x100 | 38 | 80 | 17 | 20 | 25 | 138 | 136 | 10000 |
| 25044 | -     | M20x125 | 38 | 80 | 17 | -  | 25 | 163 | -   | 10000 |
| 25046 | 26054 | M20x150 | 38 | 80 | 17 | 20 | 25 | 188 | 186 | 10000 |
| 25048 | -     | M20x175 | 38 | 80 | 17 | -  | 25 | 213 | -   | 10000 |
| 25050 | 26058 | M20x200 | 38 | 80 | 17 | 20 | 25 | 238 | 236 | 10000 |
| 25052 | -     | M20x225 | 38 | 80 | 17 | -  | 25 | 260 | -   | 10000 |
| 25070 | 26070 | M24x75  | 40 | 80 | 20 | 24 | 25 | 115 | 111 | 10000 |
| 25072 | 26072 | M24x100 | 40 | 80 | 20 | 24 | 25 | 140 | 136 | 10000 |
| 25074 | -     | M24x125 | 40 | 80 | 20 | -  | 25 | 165 | -   | 10000 |
| 25076 | 26076 | M24x150 | 40 | 80 | 20 | 24 | 25 | 190 | 186 | 10000 |
| 25078 | -     | M24x175 | 40 | 80 | 20 | -  | 25 | 215 | -   | 10000 |
| 25080 | 26080 | M24x200 | 40 | 80 | 20 | 24 | 25 | 240 | 236 | 10000 |
| 25082 | -     | M24x225 | 40 | 80 | 20 | -  | 25 | 265 | -   | 10000 |

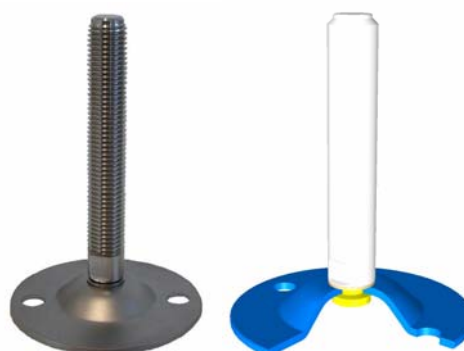
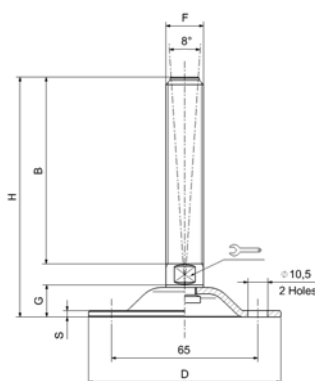
| INOX Type | STEEL Type | F x B   | A    | D   |  |       | G  | H INOX | H STEEL | Load N |
|-----------|------------|---------|------|-----|--|-------|----|--------|---------|--------|
|           |            |         |      |     | INOX   | STEEL |    |        |         |        |
| 25100     | 26090      | M16X75  | 39,5 | 100 | 13   | 16    | 30 | 114,5  | 112,5   | 15000  |
| 25102     | 26092      | M16X100 | 39,5 | 100 | 13   | 16    | 30 | 139,5  | 137,5   | 15000  |
| 25104     | -          | M16X125 | 39,5 | 100 | 13   | -     | 30 | 164,5  | -       | 15000  |
| 25106     | 26096      | M16X150 | 39,5 | 100 | 13   | 16    | 30 | 189,5  | 187,5   | 15000  |
| 25108     | -          | M16X175 | 39,5 | 100 | 13   | -     | 30 | 214,5  | -       | 15000  |
| 25110     | 26100      | M16X200 | 39,5 | 100 | 13   | 16    | 30 | 239,5  | 237,5   | 15000  |
| 25120     | 26110      | M20X75  | 43   | 100 | 17   | 20    | 30 | 118    | 113,5   | 15000  |
| 25122     | 26112      | M20X100 | 43   | 100 | 17   | 20    | 30 | 143    | 138,5   | 15000  |
| 25124     | -          | M20X125 | 43   | 100 | 17   | -     | 30 | 168    | -       | 15000  |
| 25126     | 26116      | M20X150 | 43   | 100 | 17   | 20    | 30 | 193    | 188,5   | 15000  |
| 25128     | -          | M20X175 | 43   | 100 | 17   | -     | 30 | 218    | -       | 15000  |
| 25130     | 26120      | M20X200 | 43   | 100 | 17   | 20    | 30 | 243    | 238,5   | 15000  |
| 25132     | -          | M20X225 | 43   | 100 | 17   | -     | 30 | 268    | -       | 15000  |
| 25134     | 26124      | M20X250 | 43   | 100 | 17   | 20    | 30 | 293    | 288,5   | 15000  |
| 25150     | 26130      | M24X100 | 44   | 100 | 20   | 24    | 30 | 144    | 138,5   | 15000  |
| 25152     | -          | M24X125 | 44   | 100 | 20   | -     | 30 | 169    | -       | 15000  |
| 25154     | 26134      | M24X150 | 44   | 100 | 20   | 24    | 30 | 194    | 188,5   | 15000  |
| 25156     | -          | M24X175 | 44   | 100 | 20   | -     | 30 | 219    | -       | 15000  |
| 25158     | 26140      | M24X200 | 44   | 100 | 20   | 24    | 30 | 244    | 238,5   | 15000  |
| 25160     | -          | M24X225 | 44   | 100 | 20   | -     | 30 | 269    | -       | 15000  |
| 25162     | 26144      | M24X250 | 44   | 100 | 20   | 24    | 30 | 294    | 288,5   | 15000  |
| 25180     | 26150      | M30X100 | 44   | 100 | 26   | 30    | 30 | 144    | 139,5   | 15000  |
| 25182     | -          | M30X125 | 44   | 100 | 26   | -     | 30 | 169    | -       | 15000  |
| 25184     | 26154      | M30X150 | 44   | 100 | 26   | 30    | 30 | 194    | 189,5   | 15000  |
| 25186     | -          | M30X175 | 44   | 100 | 26   | -     | 30 | 219    | -       | 15000  |
| 25188     | 26158      | M30X200 | 44   | 100 | 26   | 30    | 30 | 244    | 239,5   | 15000  |
| 25200     | -          | M30X225 | 44   | 100 | 26   | -     | 30 | 269    | -       | 15000  |
| 25202     | 26162      | M30X250 | 44   | 100 | 26   | 30    | 30 | 294    | 289,5   | 15000  |

The above indicated load values refer to load measured at half length of the screw. In case of high vibration or by dynamic load these values should be reduced. Please consult your supplier.



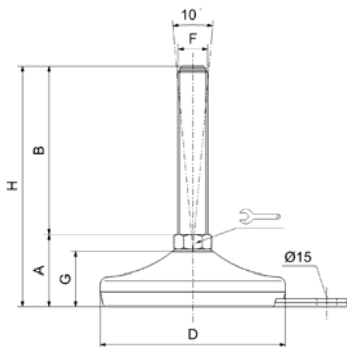
| INOX Type | STEEL Type | F x B   | A  | D   | Wrench |       | G  | H INOX | H STEEL | Load N |
|-----------|------------|---------|----|-----|--------|-------|----|--------|---------|--------|
|           |            |         |    |     | INOX   | STEEL |    |        |         |        |
| 25250     | 26200      | M16x75  | 47 | 120 | 13     | 16    | 32 | 122    | 116,5   | 30000  |
| 25252     | 26202      | M16x100 | 47 | 120 | 13     | 16    | 32 | 147    | 141,5   | 30000  |
| 25254     | -          | M16x125 | 47 | 120 | 13     | -     | 32 | 172    | -       | 30000  |
| 25256     | 26204      | M16x150 | 47 | 120 | 13     | 16    | 32 | 197    | 191,5   | 30000  |
| 25258     | -          | M16x175 | 47 | 120 | 13     | -     | 32 | 222    | -       | 30000  |
| 25260     | 26206      | M16x200 | 47 | 120 | 13     | 16    | 32 | 247    | 241,5   | 30000  |
| 25262     | 26210      | M20x75  | 47 | 120 | 17     | 20    | 32 | 122    | 117,5   | 30000  |
| 25264     | 26212      | M20x100 | 47 | 120 | 17     | 20    | 32 | 147    | 142,5   | 30000  |
| 25266     | -          | M20x125 | 47 | 120 | 17     | -     | 32 | 172    | -       | 30000  |
| 25268     | 26214      | M20x150 | 47 | 120 | 17     | 20    | 32 | 197    | 192,5   | 30000  |
| 25270     | -          | M20x175 | 47 | 120 | 17     | -     | 32 | 222    | -       | 30000  |
| 25272     | 26216      | M20x200 | 47 | 120 | 17     | 20    | 32 | 247    | 242,5   | 30000  |
| 25274     | -          | M20x225 | 47 | 120 | 17     | -     | 32 | 272    | -       | 30000  |
| 25276     | 26218      | M20x250 | 47 | 120 | 17     | 20    | 32 | 297    | 292,5   | 30000  |
| 25278     | 26220      | M24x100 | 47 | 120 | 20     | 24    | 32 | 147    | 142,5   | 30000  |
| 25280     | -          | M24x125 | 47 | 120 | 20     | -     | 32 | 172    | -       | 30000  |
| 25282     | 26222      | M24x150 | 47 | 120 | 20     | 24    | 32 | 197    | 192,5   | 30000  |
| 25284     | -          | M24x175 | 47 | 120 | 20     | -     | 32 | 222    | -       | 30000  |
| 25286     | 26224      | M24x200 | 47 | 120 | 20     | 24    | 32 | 247    | 242,5   | 30000  |
| 25288     | -          | M24x225 | 47 | 120 | 20     | -     | 32 | 272    | -       | 30000  |
| 25290     | 26226      | M24x250 | 47 | 120 | 20     | 24    | 32 | 297    | 292,5   | 30000  |
| 25292     | 26230      | M30x100 | 49 | 120 | 26     | 30    | 32 | 149    | 143,5   | 30000  |
| 25294     | -          | M30x125 | 49 | 120 | 26     | -     | 32 | 174    | -       | 30000  |
| 25296     | 26232      | M30x150 | 49 | 120 | 26     | 30    | 32 | 199    | 193,5   | 30000  |
| 25298     | -          | M30x175 | 49 | 120 | 26     | -     | 32 | 224    | -       | 30000  |
| 25300     | 26234      | M30x200 | 49 | 120 | 26     | 30    | 32 | 249    | 243,5   | 30000  |
| 25302     | -          | M30x225 | 49 | 120 | 26     | -     | 32 | 274    | -       | 30000  |
| 25304     | 26236      | M30x250 | 49 | 120 | 26     | 30    | 32 | 299    | 293,5   | 30000  |

## MAR – 85 INOX



| INOX Type | F x B   | S | D  | Wrench |       | G   | H     | Load N |
|-----------|---------|---|----|--------|-------|-----|-------|--------|
|           |         |   |    | INOX   | STEEL |     |       |        |
| 15688     | M16x100 | 3 | 85 | 13     | 13    | 121 | 12000 |        |
| 15690     | M16x150 | 3 | 85 | 13     | 13    | 171 | 12000 |        |
| 15692     | M16x175 | 3 | 85 | 13     | 13    | 196 | 12000 |        |
| 15694     | M20x100 | 3 | 85 | 17     | 13    | 136 | 12000 |        |
| 15696     | M20x150 | 3 | 85 | 17     | 13    | 180 | 12000 |        |
| 15698     | M20x200 | 3 | 85 | 17     | 13    | 237 | 12000 |        |

## MAR – 130 INOX / STEEL



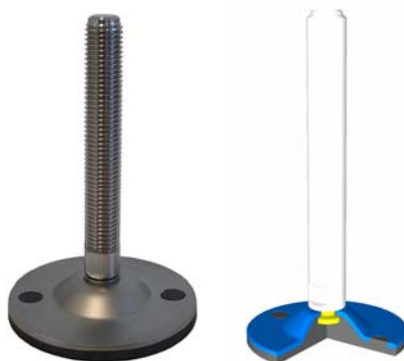
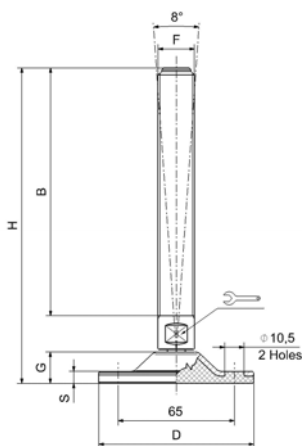
INOX / STEEL

| INOX Type  | STEEL Type | F x B   | A  | D  | Wrench |       | G  | H    |       | I  | Load N |
|------------|------------|---------|----|----|--------|-------|----|------|-------|----|--------|
|            |            |         |    |    | INOX   | STEEL |    | INOX | STEEL |    |        |
| 24900/10/F | 26000/F    | M10x50  | 35 | 80 | 14     | 14    | 25 | 85   | 85    | 54 | 10000  |
| 25000/10/F | -          | M10x75  | 35 | 80 | 14     | -     | 25 | 110  | -     | 54 | 10000  |
| 25002/10/F | 26004/F    | M10x100 | 35 | 80 | 14     | 14    | 25 | 135  | 135   | 54 | 10000  |
| 25004/10/F | -          | M10x125 | 35 | 80 | 14     | -     | 25 | 160  | -     | 54 | 10000  |
| 24900/12/F | 26010/F    | M12x50  | 35 | 80 | 14     | 14    | 25 | 85   | 85    | 54 | 10000  |
| 25000/12/F | -          | M12x75  | 35 | 80 | 14     | -     | 25 | 110  | -     | 54 | 10000  |
| 25002/12/F | 26014/F    | M12x100 | 35 | 80 | 14     | 14    | 25 | 135  | 135   | 54 | 10000  |
| 25004/12/F | -          | M12x125 | 35 | 80 | 14     | -     | 25 | 160  | -     | 54 | 10000  |
| 25006/12/F | 26018/F    | M12x150 | 35 | 80 | 14     | 14    | 25 | 185  | 185   | 54 | 10000  |
| -          | 26022/F    | M14x50  | 35 | 80 | -      | 14    | 25 | -    | 85    | 54 | 10000  |
| 25000/F    | -          | M14x75  | 35 | 80 | 14     | -     | 25 | 110  | -     | 54 | 10000  |
| 25002/F    | 26024/F    | M14x100 | 35 | 80 | 14     | 14    | 25 | 135  | 135   | 54 | 10000  |
| 25004/F    | -          | M14x125 | 35 | 80 | 14     | -     | 25 | 160  | -     | 54 | 10000  |
| 25006/F    | 26028/F    | M14x150 | 35 | 80 | 14     | 14    | 25 | 185  | 185   | 54 | 10000  |
| 25008/F    | -          | M14x175 | 35 | 80 | 14     | -     | 25 | 210  | -     | 54 | 10000  |

| INOX Type | STEEL Type | F x B   | A  | D  | Wrench |       | G  | H    |       | I  | Load N |
|-----------|------------|---------|----|----|--------|-------|----|------|-------|----|--------|
|           |            |         |    |    | INOX   | STEEL |    | INOX | STEEL |    |        |
| -         | 26034/F    | M16x50  | 35 | 80 | -      | 16    | 25 | -    | 85    | 54 | 10000  |
| 25020/F   | -          | M16x75  | 35 | 80 | 13     | -     | 25 | 110  | -     | 54 | 10000  |
| 25022/F   | 26036/F    | M16x100 | 35 | 80 | 13     | 16    | 25 | 135  | 135   | 54 | 10000  |
| 25024/F   | -          | M16x125 | 35 | 80 | 13     | -     | 25 | 160  | -     | 54 | 10000  |
| 25026/F   | 26040/F    | M16x150 | 35 | 80 | 13     | 16    | 25 | 185  | 185   | 54 | 10000  |
| 25028/F   | -          | M16x175 | 35 | 80 | 13     | -     | 25 | 210  | -     | 54 | 10000  |
| 25040/F   | 26050/F    | M20x75  | 38 | 80 | 17     | 20    | 25 | 113  | 111   | 54 | 10000  |
| 25042/F   | 26052/F    | M20x100 | 38 | 80 | 17     | 20    | 25 | 138  | 136   | 54 | 10000  |
| 25044/F   | -          | M20x125 | 38 | 80 | 17     | -     | 25 | 163  | -     | 54 | 10000  |
| 25046/F   | 26054/F    | M20x150 | 38 | 80 | 17     | 20    | 25 | 188  | 186   | 54 | 10000  |
| 25048/F   | -          | M20x175 | 38 | 80 | 17     | -     | 25 | 213  | -     | 54 | 10000  |
| 25050/F   | 26058/F    | M20x200 | 38 | 80 | 17     | 20    | 25 | 238  | 236   | 54 | 10000  |
| 25052/F   | -          | M20x225 | 38 | 80 | 17     | -     | 25 | 260  | -     | 54 | 10000  |
| 25070/F   | 26070/F    | M24x75  | 40 | 80 | 20     | 24    | 25 | 115  | 111   | 54 | 10000  |
| 25072/F   | 26072/F    | M24x100 | 40 | 80 | 20     | 24    | 25 | 140  | 136   | 54 | 10000  |
| 25074/F   | -          | M24x125 | 40 | 80 | 20     | -     | 25 | 165  | -     | 54 | 10000  |
| 25076/F   | 26076/F    | M24x150 | 40 | 80 | 20     | 24    | 25 | 190  | 186   | 54 | 10000  |
| 25078/F   | -          | M24x175 | 40 | 80 | 20     | -     | 25 | 215  | -     | 54 | 10000  |
| 25080/F   | 26080/F    | M24x200 | 40 | 80 | 20     | 24    | 25 | 240  | 236   | 54 | 10000  |
| 25082/F   | -          | M24x225 | 40 | 80 | 20     | -     | 25 | 265  | -     | 54 | 10000  |

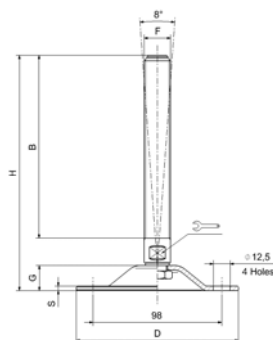
| INOX Type | STEEL Type | F x B   | A    | D   | Wrench |       | G  | H     |       | I  | Load N |
|-----------|------------|---------|------|-----|--------|-------|----|-------|-------|----|--------|
|           |            |         |      |     | INOX   | STEEL |    | INOX  | STEEL |    |        |
| 25100/F   | 26090/F    | M16X75  | 39,5 | 100 | 13     | 16    | 30 | 114,5 | 112,5 | 69 | 15000  |
| 25102/F   | 26092/F    | M16X100 | 39,5 | 100 | 13     | 16    | 30 | 139,5 | 137,5 | 69 | 15000  |
| 25104/F   | -          | M16X125 | 39,5 | 100 | 13     | -     | 30 | 164,5 | -     | 69 | 15000  |
| 25106/F   | 26096/F    | M16X150 | 39,5 | 100 | 13     | 16    | 30 | 189,5 | 187,5 | 69 | 15000  |
| 25108/F   | -          | M16X175 | 39,5 | 100 | 13     | -     | 30 | 214,5 | -     | 69 | 15000  |
| 25110/F   | 26100/F    | M16X200 | 39,5 | 100 | 13     | 16    | 30 | 239,5 | 237,5 | 69 | 15000  |
| 25120/F   | 26110/F    | M20X75  | 43   | 100 | 17     | 20    | 30 | 118   | 113,5 | 69 | 15000  |
| 25122/F   | 26112/F    | M20X100 | 43   | 100 | 17     | 20    | 30 | 143   | 138,5 | 69 | 15000  |
| 25124/F   | -          | M20X125 | 43   | 100 | 17     | -     | 30 | 168   | -     | 69 | 15000  |
| 25126/F   | 26116/F    | M20X150 | 43   | 100 | 17     | 20    | 30 | 193   | 188,5 | 69 | 15000  |
| 25128/F   | -          | M20X175 | 43   | 100 | 17     | -     | 30 | 218   | -     | 69 | 15000  |
| 25130/F   | 26120/F    | M20X200 | 43   | 100 | 17     | 20    | 30 | 243   | 238,5 | 69 | 15000  |
| 25132/F   | -          | M20X225 | 43   | 100 | 17     | -     | 30 | 268   | -     | 69 | 15000  |
| 25134/F   | 26124/F    | M20X250 | 43   | 100 | 17     | 20    | 30 | 293   | 288,5 | 69 | 15000  |
| 25150/F   | 26130/F    | M24X100 | 44   | 100 | 20     | 24    | 30 | 144   | 138,5 | 69 | 15000  |
| 25152/F   | -          | M24X125 | 44   | 100 | 20     | -     | 30 | 169   | -     | 69 | 15000  |
| 25154/F   | 26134/F    | M24X150 | 44   | 100 | 20     | 24    | 30 | 194   | 188,5 | 69 | 15000  |
| 25156/F   | -          | M24X175 | 44   | 100 | 20     | -     | 30 | 219   | -     | 69 | 15000  |
| 25158/F   | 26140/F    | M24X200 | 44   | 100 | 20     | 24    | 30 | 244   | 238,5 | 69 | 15000  |
| 25160/F   | -          | M24X225 | 44   | 100 | 20     | -     | 30 | 269   | -     | 69 | 15000  |
| 25162/F   | 26144/F    | M24X250 | 44   | 100 | 20     | 24    | 30 | 294   | 288,5 | 69 | 15000  |
| 25180/F   | 26150/F    | M30X100 | 44   | 100 | 26     | 30    | 30 | 144   | 139,5 | 69 | 15000  |
| 25182/F   | -          | M30X125 | 44   | 100 | 26     | -     | 30 | 169   | -     | 69 | 15000  |
| 25184/F   | 26154/F    | M30X150 | 44   | 100 | 26     | 30    | 30 | 194   | 189,5 | 69 | 15000  |
| 25186/F   | -          | M30X175 | 44   | 100 | 26     | -     | 30 | 219   | -     | 69 | 15000  |
| 25188/F   | 26158/F    | M30X200 | 44   | 100 | 26     | 30    | 30 | 244   | 239,5 | 69 | 15000  |
| 25200/F   | -          | M30X225 | 44   | 100 | 26     | -     | 30 | 269   | -     | 69 | 15000  |
| 25202/F   | 26162/F    | M30X250 | 44   | 100 | 26     | 30    | 30 | 294   | 289,5 | 69 | 15000  |

## MAR – 85 INOX / ANTISLIP



| INOX+RUBBER Type | F x B   | S | D  | Wrench |       | G   | H     | Load N |
|------------------|---------|---|----|--------|-------|-----|-------|--------|
|                  |         |   |    | INOX   | STEEL |     |       |        |
| 15688/V          | M16x100 | 7 | 85 | 13     | 16    | 130 | 12000 |        |
| 15690/V          | M16x150 | 7 | 85 | 13     | 16    | 180 | 12000 |        |
| 15962/V          | M16x175 | 7 | 85 | 13     | 16    | 205 | 12000 |        |
| 15694/V          | M20x100 | 7 | 85 | 17     | 16    | 130 | 12000 |        |
| 15696/V          | M20x150 | 7 | 85 | 17     | 16    | 180 | 12000 |        |
| 15696/V          | M20x200 | 7 | 85 | 17     | 16    | 230 | 12000 |        |

## MAR – 123 INOX / STEEL



INOX

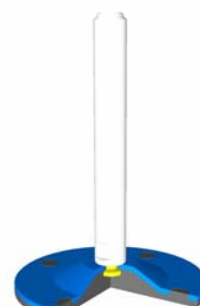
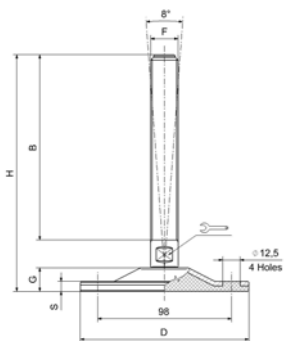


STEEL



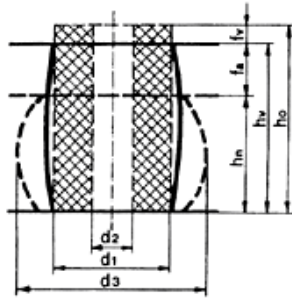
| INOX Type | STEEL Type | F x B   | S    |       | D    |       | 🔧  | G    | H   | Load N |
|-----------|------------|---------|------|-------|------|-------|----|------|-----|--------|
|           |            |         | INOX | STEEL | INOX | STEEL |    |      |     |        |
| 15700     | 15600Z     | M16x100 | 3    | 4     | 123  | 124   | 17 | 20,5 | 134 | 20000  |
| 15702     | 15604Z     | M16x150 | 3    | 4     | 123  | 124   | 17 | 20,5 | 184 | 20000  |
| 15704     | 15608Z     | M16x175 | 3    | 4     | 123  | 124   | 17 | 20,5 | 209 | 20000  |
| 15706     | 15612Z     | M20x100 | 3    | 4     | 123  | 124   | 17 | 20,5 | 134 | 25000  |
| 15708     | 15615Z     | M20x150 | 3    | 4     | 123  | 124   | 17 | 20,5 | 184 | 25000  |
| -         | 15620Z     | M20x175 | -    | 4     | -    | 124   | 17 | 20,5 | 209 | 25000  |
| 15710     | 15624Z     | M20x200 | 3    | 4     | 123  | 124   | 17 | 20,5 | 234 | 25000  |
| 15712     | 15628Z     | M24x100 | 3    | 4     | 123  | 124   | 17 | 20,5 | 134 | 30000  |
| 15714     | 15632Z     | M24x150 | 3    | 4     | 123  | 124   | 17 | 20,5 | 184 | 30000  |
| 15716     | 15636Z     | M24x200 | 3    | 4     | 123  | 124   | 17 | 20,5 | 234 | 30000  |
| 15718     | 15640Z     | M30x150 | 3    | 4     | 123  | 124   | 17 | 20,5 | 185 | 35000  |
| 15720     | 15644Z     | M30x200 | 3    | 4     | 123  | 124   | 17 | 20,5 | 235 | 35000  |
| 15722     | 15648Z     | M30x250 | 3    | 4     | 123  | 124   | 17 | 20,5 | 285 | 35000  |

## MAR – 123 INOX / STEEL + ANTISLIP



| INOX Type | STEEL Type | F x B   | S    |       | D    |       | 🔧    |       | G    | H    |       | Load N |
|-----------|------------|---------|------|-------|------|-------|------|-------|------|------|-------|--------|
|           |            |         | INOX | STEEL | INOX | STEEL | INOX | STEEL |      | INOX | STEEL |        |
| 15700/V   | 15600Z/V   | M16x100 | 7    | 8     | 123  | 124   | 13   | 16    | 23,5 | 137  | 132   | 20000  |
| 15702/V   | 15604Z/V   | M16x150 | 7    | 8     | 123  | 124   | 13   | 16    | 23,5 | 187  | 182   | 20000  |
| 15704/V   | 15608Z/V   | M16x175 | 7    | 8     | 123  | 124   | 13   | 16    | 23,5 | 212  | 207   | 20000  |
| 15706/V   | 15612Z/V   | M20x100 | 7    | 8     | 123  | 124   | 17   | 20    | 23,5 | 137  | 132   | 20000  |
| 15708/V   | 15616Z/V   | M20x150 | 7    | 8     | 123  | 124   | 17   | 20    | 23,5 | 187  | 182   | 20000  |
| -         | 15620Z/V   | M20x175 | -    | 8     | -    | 124   | -    | 20    | 23,5 | -    | 207   | 20000  |
| 15710/V   | 15624Z/V   | M20x200 | 7    | 8     | 123  | 124   | 17   | 20    | 23,5 | 137  | 232   | 20000  |
| 15712/V   | 15628Z/V   | M24x100 | 7    | 8     | 123  | 124   | 20   | 24    | 23,5 | 138  | 132   | 20000  |
| 15714/V   | 15632Z/V   | M24x150 | 7    | 8     | 123  | 124   | 20   | 24    | 23,5 | 188  | 182   | 20000  |
| 15716/V   | 15636Z/V   | M24x200 | 7    | 8     | 123  | 124   | 20   | 24    | 23,5 | 238  | 232   | 20000  |
| 15718/V   | 15640Z/V   | M30x150 | 7    | 8     | 123  | 124   | 26   | 30    | 23,5 | 188  | 183   | 20000  |
| 15720/V   | 15644Z/V   | M30x200 | 7    | 8     | 123  | 124   | 26   | 30    | 23,5 | 238  | 233   | 20000  |
| 15722/V   | 15648Z/V   | M30x250 | 7    | 8     | 123  | 124   | 26   | 30    | 23,5 | 288  | 283   | 20000  |

# POLYURETHANE BUFFERS / POLIURETÁN RUGÓK



**PU 80 Shore** Couleure/Farbe/Szín/Couleure  
Red/Rot/Piros/Rouge

| d <sub>1</sub><br>mm | d <sub>2</sub><br>mm | h <sub>0</sub><br>mm | h <sub>v</sub><br>mm | f <sub>a</sub><br>mm | Nyomás<br>kp | d <sub>3</sub><br>mm |
|----------------------|----------------------|----------------------|----------------------|----------------------|--------------|----------------------|
| 16                   | 6,5                  | 12,5                 | 11                   | 3                    | 115          | ~21                  |
|                      |                      | 16                   | 14,5                 | 4                    | 110          |                      |
|                      |                      | 20                   | 18                   | 5                    | 106          |                      |
|                      |                      | 25                   | 22,5                 | 6                    | 104          |                      |
| 20                   | 8,5                  | 16                   | 14,5                 | 4                    | 175          | ~28                  |
|                      |                      | 20                   | 18                   | 5                    | 170          |                      |
|                      |                      | 25                   | 22,5                 | 6                    | 165          |                      |
|                      |                      | 32                   | 28,5                 | 7,5                  | 162          |                      |
| 25                   | 8,5                  | 20                   | 18                   | 5                    | 280          | ~35                  |
|                      |                      | 25                   | 22,5                 | 6                    | 275          |                      |
|                      |                      | 32                   | 28,5                 | 7,5                  | 270          |                      |
|                      |                      | 40                   | 36                   | 10                   | 268          |                      |
| 32                   | 13,5                 | 32                   | 28,5                 | 7,5                  | 440          | ~42                  |
|                      |                      | 40                   | 36                   | 10                   | 430          |                      |
|                      |                      | 50                   | 45                   | 12,5                 | 425          |                      |
|                      |                      | 63                   | 56                   | 15                   | 420          |                      |
| 40                   | 13,5                 | 32                   | 28,5                 | 7,5                  | 745          | ~52                  |
|                      |                      | 40                   | 36                   | 10                   | 735          |                      |
|                      |                      | 50                   | 45                   | 12,5                 | 730          |                      |
|                      |                      | 63                   | 56                   | 15                   | 725          |                      |
| 50                   | 17                   | 80                   | 72                   | 20                   | 720          | ~66                  |
|                      |                      | 32                   | 28,5                 | 7,5                  | 1200         |                      |
|                      |                      | 40                   | 36                   | 10                   | 1170         |                      |
|                      |                      | 50                   | 45                   | 12,5                 | 1150         |                      |
|                      |                      | 63                   | 56                   | 15                   | 1130         |                      |
| 63                   | 17                   | 80                   | 72                   | 20                   | 1120         | ~80                  |
|                      |                      | 100                  | 90                   | 25                   | 1110         |                      |
|                      |                      | 32                   | 28,5                 | 7,5                  | 2200         |                      |
|                      |                      | 40                   | 36                   | 10                   | 1200         |                      |
|                      |                      | 50                   | 45                   | 12,5                 | 2000         |                      |
|                      |                      | 63                   | 56                   | 15                   | 1930         |                      |
| 80                   | 21                   | 80                   | 72                   | 20                   | 1890         | ~105                 |
|                      |                      | 100                  | 90                   | 25                   | 1850         |                      |
|                      |                      | 125                  | 112                  | 30                   | 1820         |                      |
|                      |                      | 32                   | 28,5                 | 7,5                  | 3600         |                      |
|                      |                      | 40                   | 36                   | 10                   | 3450         |                      |
|                      |                      | 50                   | 45                   | 12,5                 | 3280         |                      |
| 100                  | 21                   | 63                   | 56                   | 15                   | 3150         | ~127                 |
|                      |                      | 80                   | 72                   | 20                   | 3100         |                      |
|                      |                      | 100                  | 90                   | 25                   | 3040         |                      |
|                      |                      | 125                  | 112                  | 30                   | 2980         |                      |
|                      |                      | 32                   | 28,5                 | 7,5                  | 6000         |                      |
|                      |                      | 40                   | 36                   | 10                   | 5750         |                      |
| 125                  | 27                   | 50                   | 45                   | 12,5                 | 5520         | ~155                 |
|                      |                      | 63                   | 56                   | 15                   | 5320         |                      |
|                      |                      | 80                   | 72                   | 20                   | 5120         |                      |
|                      |                      | 100                  | 90                   | 25                   | 4980         |                      |
|                      |                      | 125                  | 112                  | 30                   | 4850         |                      |
|                      |                      | 160                  | 144                  | 40                   | 7580         |                      |

**PU 90 Shore** Couleure/Farbe/Szín/Couleure  
Blue/Blau/Kék/Bleu

| h <sub>0</sub><br>mm | h <sub>v</sub><br>mm | f <sub>a</sub><br>mm | Nyomás<br>kp | d <sub>3</sub><br>mm |
|----------------------|----------------------|----------------------|--------------|----------------------|
| 12,5                 | 11,5                 | 2                    | 158          | ~20                  |
| 16                   | 14,5                 | 3                    | 153          |                      |
| 20                   | 18                   | 4                    | 150          |                      |
| 25                   | 22,5                 | 5                    | 148          |                      |
| 16                   | 14,5                 | 3                    | 235          | ~27                  |
| 20                   | 18                   | 4                    | 230          |                      |
| 25                   | 22,5                 | 5                    | 228          |                      |
| 32                   | 28,5                 | 6                    | 226          |                      |
| 20                   | 18                   | 4                    | 398          | ~32                  |
| 25                   | 22,5                 | 5                    | 390          |                      |
| 32                   | 28,5                 | 6                    | 386          |                      |
| 40                   | 36                   | 8                    | 382          |                      |
| 32                   | 28,5                 | 6                    | 595          | ~39                  |
| 40                   | 36                   | 8                    | 585          |                      |
| 50                   | 45                   | 10                   | 580          |                      |
| 63                   | 56                   | 12                   | 757          |                      |
| 32                   | 28,5                 | 6                    | 1020         | ~49                  |
| 40                   | 36                   | 8                    | 1000         |                      |
| 50                   | 45                   | 10                   | 995          |                      |
| 63                   | 56                   | 12                   | 990          |                      |
| 80                   | 72                   | 16                   | 985          | ~62                  |
| 32                   | 28,5                 | 6                    | 1600         |                      |
| 40                   | 36                   | 8                    | 1575         |                      |
| 50                   | 45                   | 10                   | 1550         |                      |
| 63                   | 56                   | 12                   | 1530         |                      |
| 80                   | 72                   | 16                   | 1515         |                      |
| 100                  | 90                   | 20                   | 1500         | ~79                  |
| 32                   | 28,5                 | 6                    | 2800         |                      |
| 40                   | 36                   | 8                    | 2720         |                      |
| 50                   | 45                   | 10                   | 2650         |                      |
| 63                   | 56                   | 12                   | 2600         |                      |
| 80                   | 72                   | 16                   | 2550         |                      |
| 100                  | 90                   | 20                   | 2500         | ~102                 |
| 125                  | 112                  | 24                   | 2450         |                      |
| 32                   | 28,5                 | 6                    | 4970         |                      |
| 40                   | 36                   | 8                    | 4660         |                      |
| 50                   | 45                   | 10                   | 4520         |                      |
| 63                   | 56                   | 12                   | 4340         |                      |
| 80                   | 72                   | 16                   | 4200         | ~125                 |
| 100                  | 90                   | 20                   | 4130         |                      |
| 125                  | 112                  | 24                   | 4050         |                      |
| 32                   | 28,5                 | 6                    | 8050         |                      |
| 40                   | 36                   | 8                    | 7740         |                      |
| 50                   | 45                   | 10                   | 7420         |                      |
| 63                   | 56                   | 12                   | 7140         | ~150                 |
| 80                   | 72                   | 16                   | 6900         |                      |
| 100                  | 90                   | 20                   | 6700         |                      |
| 125                  | 112                  | 24                   | 6520         |                      |
| 32                   | 28,5                 | 6                    | 12450        |                      |
| 40                   | 36                   | 8                    | 12000        |                      |
| 50                   | 45                   | 10                   | 11550        |                      |
| 63                   | 56                   | 12                   | 11150        | ~150                 |
| 80                   | 72                   | 16                   | 10700        |                      |
| 100                  | 90                   | 20                   | 10300        |                      |
| 125                  | 112                  | 24                   | 10050        |                      |
| 160                  | 144                  | 32                   | 9850         |                      |

**PU 95 Shore** Couleure/Farbe/Szín/Couleure  
Green/Grün/Zöld/Vert

| h <sub>0</sub><br>mm | h <sub>v</sub><br>mm | f <sub>a</sub><br>mm | Nyomás<br>kp | d <sub>3</sub><br>mm |
|----------------------|----------------------|----------------------|--------------|----------------------|
| 12,5                 | 11                   | 1,5                  | 192          | ~19,5                |
| 16                   | 14,5                 | 2                    | 188          |                      |
| 20                   | 18                   | 3                    | 185          |                      |
| 25                   | 22,5                 | 4                    | 182          |                      |
| 16                   | 14,5                 | 2                    | 290          | ~25                  |
| 20                   | 18                   | 3                    | 285          |                      |
| 25                   | 22,5                 | 4                    | 282          |                      |
| 32                   | 28,5                 | 4,5                  | 280          |                      |
| 20                   | 18                   | 3                    | 490          | ~30                  |
| 25                   | 22,5                 | 4                    | 480          |                      |
| 32                   | 28,5                 | 4,5                  | 475          |                      |
| 40                   | 36                   | 6                    | 470          |                      |
| 32                   | 28,5                 | 4,5                  | 730          | ~38                  |
| 40                   | 36                   | 6                    | 718          |                      |
| 50                   | 45                   | 7,5                  | 708          |                      |
| 63                   | 56                   | 9                    | 700          |                      |
| 32                   | 28,5                 | 4,5                  | 1250         | ~46                  |
| 40                   | 36                   | 6                    | 1230         |                      |
| 50                   | 45                   | 7,5                  | 1225         |                      |
| 63                   | 56                   | 9                    | 1215         |                      |
| 80                   | 72                   | 12                   | 1200         | ~59                  |
| 32                   | 28,5                 | 4,5                  | 2010         |                      |
| 40                   | 36                   | 6                    | 1960         |                      |
| 50                   | 45                   | 7,5                  | 1920         |                      |
| 63                   | 56                   | 9                    | 1900         |                      |
| 80                   | 72                   | 12                   | 1880         |                      |
| 100                  | 90                   | 15                   | 1860         | ~75                  |
| 125                  | 112                  | 18                   | 3070         |                      |
| 32                   | 28,5                 | 4,5                  | 3450         |                      |
| 40                   | 36                   | 6                    | 3360         |                      |
| 50                   | 45                   | 7,5                  | 3280         |                      |
| 63                   | 56                   | 9                    | 3200         |                      |
| 80                   | 72                   | 12                   | 3150         | ~98                  |
| 100                  | 90                   | 15                   | 3110         |                      |
| 125                  | 112                  | 18                   | 3070         |                      |
| 32                   | 28,5                 | 4,5                  | 6000         |                      |
| 40                   | 36                   | 6                    | 5750         |                      |
| 50                   | 45                   | 7,5                  | 5540         |                      |
| 63                   | 56                   | 9                    | 5360         | ~121                 |
| 80                   | 72                   | 12                   | 5200         |                      |
| 100                  | 90                   | 15                   | 5130         |                      |
| 125                  | 112                  | 18                   | 5060         |                      |
| 32                   | 28,5                 | 4,5                  | 10200        |                      |
| 40                   | 36                   | 6                    | 9700         |                      |
| 50                   | 45                   | 7,5                  | 9220         | ~105                 |
| 63                   | 56                   | 9                    | 8820         |                      |
| 80                   | 72                   | 12                   | 8570         |                      |
| 100                  | 90                   | 15                   | 8300         |                      |
| 125                  | 112                  | 18                   | 8100         |                      |
| 160                  | 144                  | 24                   | 12800        |                      |

## ERGONOMISCHE ANTI-ERMÜDUNGSMATTEN

Behält die Verschmutzung neben den Maschinen (z.B. Späne)).

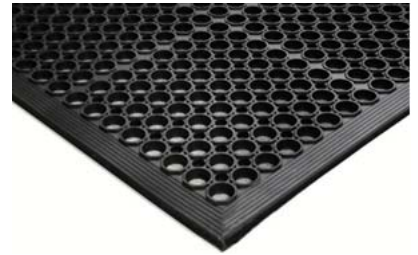
Material: NR/SBR, Ölfest, abgerundete Ränder

Dicke: 13mm

Entspricht der Norm EN 13552 Kategorie R 10

Maße: 900x1.500mm.

Im Interesse der Erweiterbarkeit ist auch mit einem gezahnten Rand erhältlich.



Ergonomische Matte für das bequeme Stehen an der Maschine.

Schützt vor der Kälte des Fußbodens und der Vibration.

Das Diamantmuster hilft beim stabilen Verkehr auf der Matte

Material: 100% geschlossenzelliges PVC mit abgerundetem gelbem Rand

Sie passt sich perfekt an den Fußboden an.

Dicke: 9mm

Entspricht der Norm EN 51130 und der Norm

DIN 54332 (B2) Teil der Brandschutznorm DIN 4102 (Brandschutzregeln).

Größe: 600x900mm, 900x1.500mm, 900x3.000mm, 900x6.000mm



Ergonomische Anti-Ermüdungsmatte

Schützt vor der Kälte des Bodens und den Schwingungen.

Das Rippenmuster hilft bei der stabilen Bewegung.

Material: 100% geschlossenzelliger, grauer Vinylschaum

Dicke: 9mm

Entspricht der Norm EN 51130 und der Norm DIN 54332 (B2) Teil der Brandschutznorm

DIN 4102

Größe: 600x900mm, 900x1.500mm, 900x18.300m



Ergonomische Anti-Ermüdungsmatte

Schützt vor der Kälte des Fußbodens und der Vibration

Das Muster r hilft beim stabilen Verkehr auf der Matte.

Material: 100% geschlossenzelliges PVC mit abgerundetem gelbem Rand

Sie passt sich perfekt an den Fußboden an.

Dicke: 9mm

Entspricht der Norm DIN 51130 Teil der Brandschutznorm DIN 4102 (Brandschutzregeln)

Größe: 600x900mm, 900x1.500mm, 900x2.000mm, 900x18.300mm



Utensilien der Schmutzfangmatten und der Anti-Ermüdungsmatten





## STALLMATTEN

Die Fußbodenbekleidung der Ställe (Boxen, Gänge, Tierwaschanlagen) muss nicht nur fest sein, da sie einer bedeutenden mechanischen und chemischen Beanspruchung ausgesetzt sind, sondern sie müssen auch den Komfort und die Hygiene und die Sicherheit der Pferde garantieren. Vom traditionellen Bodenbelag abweichend, wie der Beton oder Asphalt, müssen die speziellen Bodenbeläge, wie der Gummi rutschfrei, elastisch, schall- und wärmeisolierend sein. Ein wichtiges Argument für die Anwendung der Gummimatten in den Boxen ist, dass wir dadurch die Menge von Streu, dadurch wird auch die Menge des zu vernichtenden Abfalls gemindert und dies macht die Tierhaltung kosteneffizienter. Die besondere Eigenschaft des Gummibodenbelags ist neben seiner großen mechanischen Stabilität und Rutschfestigkeit seine Wasserfestigkeit beziehungsweise die bequeme und leichte Reinigbarkeit, so lässt sie sich sogar in Tiertransportierungsfahrzeugen verwenden. Die Rollenbreite von sogar 2 Metern kann die schnelle und bequeme Anpassung und dadurch die kosteneffiziente Umliegung.

|                            |  |
|----------------------------|--|
| Grundstoff                 | SBR  |
| Härte (Sh°A)               | 65 ÷ 74  |
| Densität (g/cm³)           | 1,39   |
| Verlängerung (%)           | 170  |
| Zugfestigkeit (N/mm (Mpa)) | 5  |
| Bänderung                  | H5 (Linsenförmig Wulst)                        |
| Unter Fläche               | Mit Textildurch / Impression                   |
| Einlagenausführung         | möglich  |
| Farbe                      | Schwarz  |
| versiert Dicke             | 6mm, 8mm, 10mm und 18mm                        |
| versiert Breite            | 1.000mm, 1.250mm, 1.650mm, 1.800mm und 2.000mm |



## RAMPENMATTEN

Die Rampenmatte mit ihrem speziellen Rippenmuster gewährleistet das sichere, rutschfreie Treiben von Tieren auf steilen Steigungen und den Rampen von Anhängern bzw. Pferdetransport-Lkw-s. Die Abwechslung von Zahnmuster und der markanten viereckigen Querrippen ergibt das Muster. Sie wird in mehreren Ausführungen (Länge/Breite) vertrieben.

|                            |   |
|----------------------------|---|
| Grundstoff                 | SBR   |
| Härte (Sh°A)               | 65 ÷ 74   |
| Densität (g/cm³)           | 1,39  |
| Verlängerung (%)           | 170   |
| Zugfestigkeit (N/mm (Mpa)) | 5   |
| Bänderung                  | Abwechslung des feineren Hauptteilmusters und der markanten, viereckigen Querrippen |
| Unter Fläche               | glatt   |
| Einlagenausführung         | kaum  |
| Farbe                      | Schwarz   |
| versiert Dicke             | (Längsrippe) 1.250mm, 1.400mm, 1.800mm, 1.900mm, 2.150mm und 2.400mm                |
| versiert Breite            | 1.200mm, 2.000mm  |

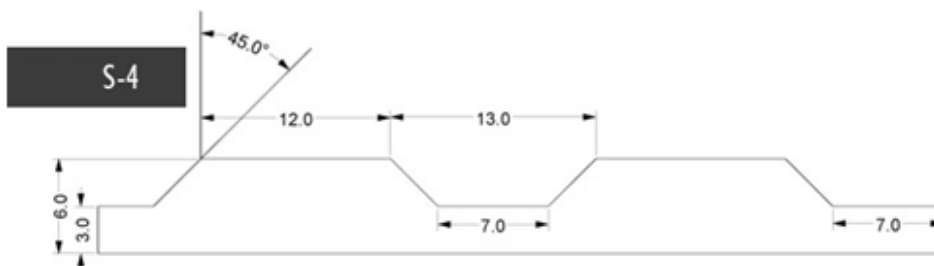
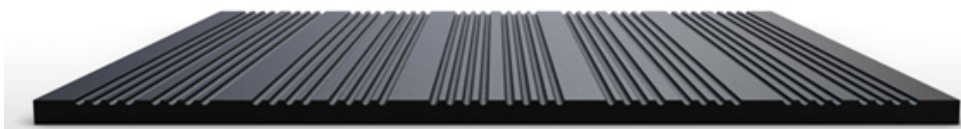
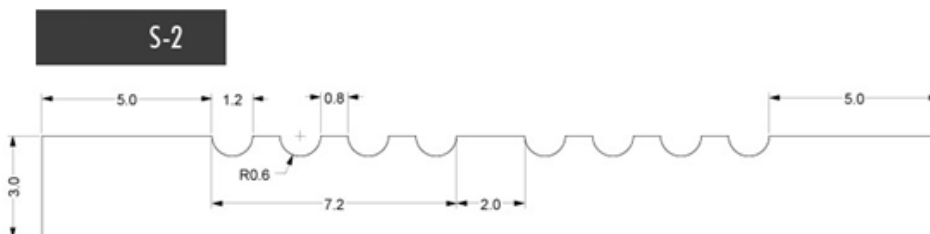
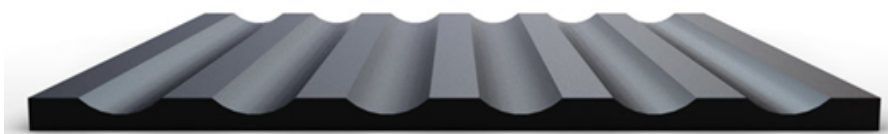
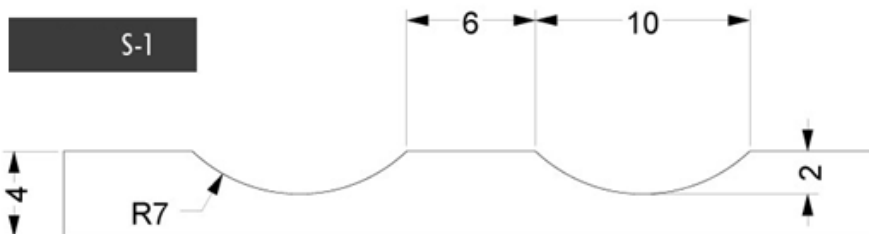


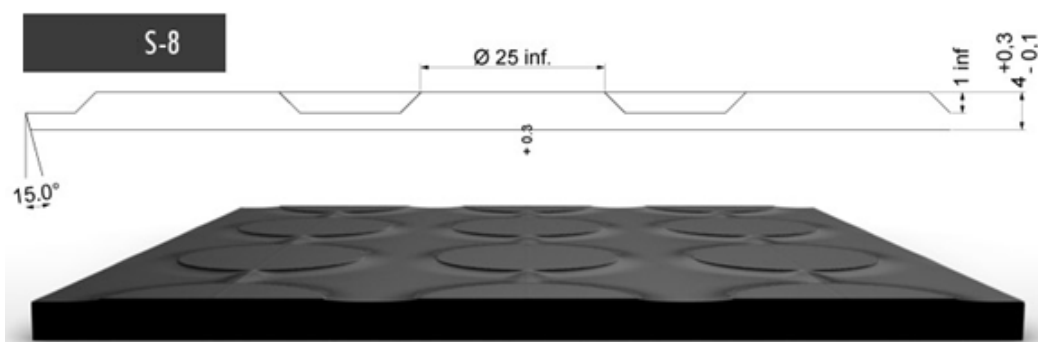
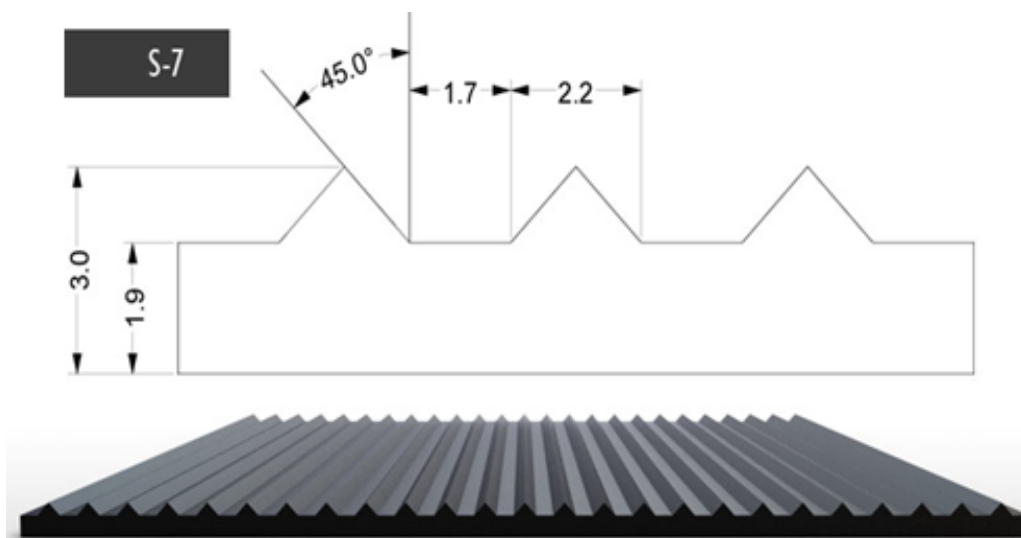
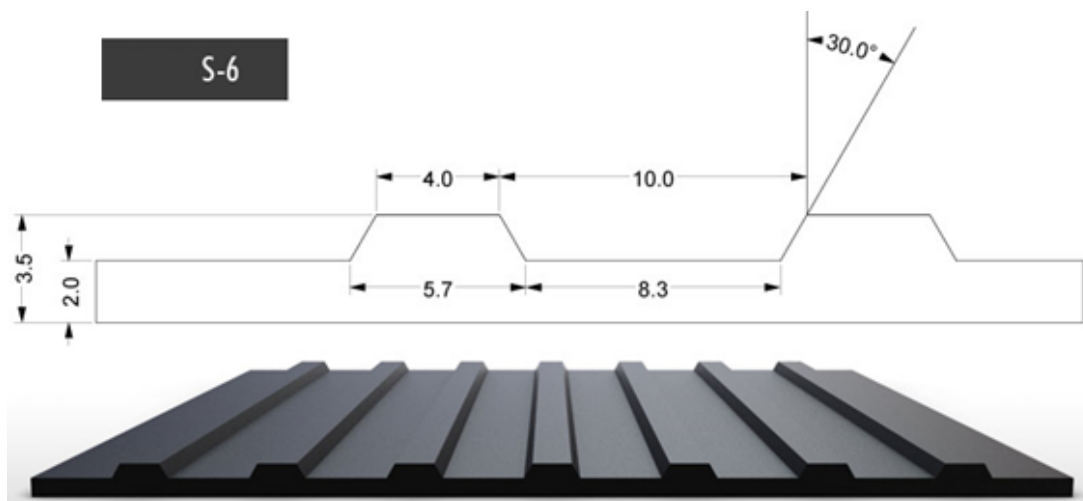
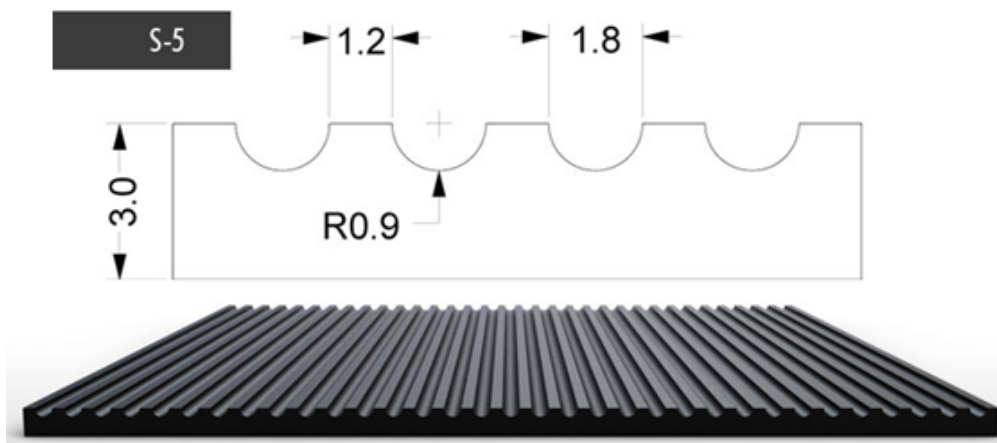


# GUMIMATTEN

|                   | S-1             | S-2             | S-4             | S-5             | S-6             | S-7             | S-8             |
|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Dicke (mm)        | 4,0<br>(+/-0,3) | 3,0<br>(+/-0,3) | 6,0<br>(+/-0,4) | 3,0<br>(+/-0,3) | 3,5<br>(+/-0,3) | 3,0<br>(+/-0,3) | 4,0<br>(+/-0,3) |
| Rollenbreite (mm) | 1.200           | 1.200           | 1.200           | 1.200           | 1.200           | 1.200/1.400     | 1.230           |

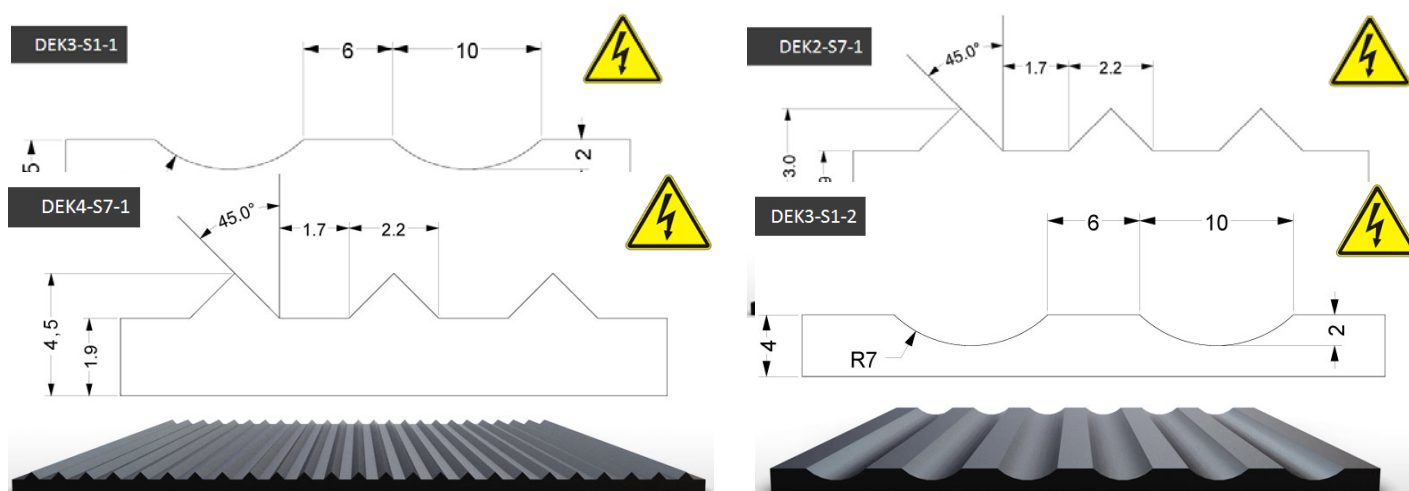
**Grundstoff:** SBR 80 +/- 5 Sh<sup>o</sup>A – Schwarz  
**Densitat:** 1,45 g/cm<sup>3</sup>  
**Verlängerung:** 250 %  
**Zugfestigkeit (Mpa):** 4 N/mm  
**Betriebstemperatur:** -25°C - +80°C





## STROMISOLIERUNGSMATTEN

|                             | DEK3-S1-1       | DEK2-S7-1       | DEK4-S7-1       | DEK3-S1-2       |
|-----------------------------|-----------------|-----------------|-----------------|-----------------|
| Grundstoff / Sh°A           | SBR / 80+/-5    | NK-SBR/ 65+/-5  | NK-SBR / 65+/-5 | SBR / 80+/-5    |
| Farbe                       | Grau            | Grau            | Grau            | Schwarz         |
| Dicke (mm)                  | 5,0 (+1,0/-0,1) | 3,0 (+1,0/-0,1) | 4,5 (+0,5/-0,1) | 5,0 (+1,0/-0,1) |
| Rollenbreite (mm)           | 1.200           | 1.200           | 1.200           | 1.300           |
| Max. Betriebsspannung (V)   | 26.500          | 17.000          | 36.000          | 26.500          |
| Testspannung (V)            | 30.000          | 20.000          | 40.000          | 30.000          |
| Max. Belastungsspannung (V) | 40.000          | 30.000          | 50.000          | 40.000          |
| Densität (g/cm³)            | 1,75            | 1,53            | 1,53            | 1,75            |
| Verlängerung (%)            | 100             | 250             | 250             | 100             |
| Zugfestigkeit (N/mm (Mpa))  | 4               | 4               | 4               | 4               |
| Betriebstemperatur (°C)     | -25 ÷ +70       | -25 ÷ +70       | -25 ÷ +70       | -25 ÷ +70       |



## TECHNISCHE GUMMIPLATTEN

|  | Mischung  | Typ  | Farbe   | Härte Sh°A | Densität g/cm³ | Zugfestigkeit Mpa | Verlängerung % | Betriebstemperatur °C |
|--|-----------|------|---------|------------|----------------|-------------------|----------------|-----------------------|
| Allgemeine Bestimmung                                  | SBR       | 7993 | Schwarz | 65 +/- 5   | 1,47           | 4,0               | 250            | -25 - + 80            |
| Általános rendeltetésű                                 | SBR       | 9035 | Weiss   | 60 +/- 5   | 1,50           | 5,0               | 300            | -25 - + 80            |
| ölbeständig  | NBR / SBR | 7645 | Schwarz | 65 +/- 5   | 1,65           | 3,0               | 200            | -25 - + 80            |
| benzin- und ölbeständig                                | NBR / SBR | 7672 | Schwarz | 70 +/- 5   | 1,30           | 8,0               | 250            | -25 - + 80            |
| hitzebeständig, wetterfest, säure- und laugenbeständig | EPDM      | 7815 | Schwarz | 60 +/- 5   | 1,22           | 10,0              | 400            | -40 - +125            |
| Para   | NR        | 7689 | Grau    | 40 +/- 5   | 1,00           | 12,0              | 600            | -25 - + 80            |
| verschleißfest   | NR / SBR  | 7750 | Schwarz | 60 +/- 5   | 1,15           | 17,0              | 400            | -25 - + 80            |

Wir haben grundsätzlich Matten ohne Einlage vorrätig, ausgenommen den Typ 7993, von dem auch Typen mit 1 oder 2 Einlagen zu erhalten sind.

Alle Typen sind auch mit Einlage herzustellen, aber in diesem Fall gibt es eine Mindestbestellmengenvorschrift.. Typische Dicke(n): 1; 2; 3; 4; 5; 6; 8 und 10mm (Mit einer Toleranz gem. DIN 7715 P2), auch dünnere / dickere Platten können hergestellt werden.

Normale Rollenlänge: 10m +/-2%, auch Rollen mit individueller Länge können hergestellt werden.

Rollenbreite: 1.200mm und 1.400mm +/-1%, Bei Bedarf können gegen Aufpreis auch schmalere Platten hergestellt werden, wenn die Mindestbestellmenge erreicht wird..

Von der Rollenlänge kann geschnitten werden (Mindestens. 0,5m), von der Rollenbreite – außer Typ 7750 – wird

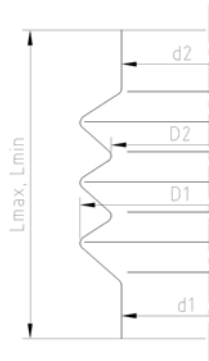
nicht geschnitten!

Auch die Plattenschneidung kann gelöst werden (Streifen, Rechtecke), in diesem Fall muss bei der Kalkulation die Gesamtbreite der Platten beachtet werden.

**Für die hier nicht aufgelisteten individuellen Ansprüchen können wir ein Herstellungsangebot geben.**



## FALTENBALG



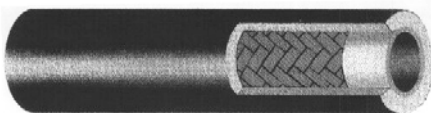
Anfertigung gemäß Kundenansprüchen (nach Zeichnung und/oder Muster)

## PROFILE



Für die gängigen Maße klicken Sie bitte auf [www.meta-vulk.hu](http://www.meta-vulk.hu)

## COMPRESSED AIR HOSE



| Belső Ø ID (mm) | Külső Ø OD (mm) | Max üzemnyomás Max. Working Pressure (Mpa) | Biztonsági tényező Safety Factor | Minimális hajlítási sugár Min. Bend. Radius (mm) | Max. Hossz Length (m) |
|-----------------|-----------------|--|----------------------------------|--|-----------------------|
| 8               | 17              | 1,6  | 4                                | 64   | 20                    |
| 8               | 17              | 2,5  | 4                                | 56   | 20                    |
| 10              | 18              | 1,0  | 4                                | 80   | 20                    |
| 10              | 18              | 1,6  | 4                                | 80   | 20                    |
| 10              | 19              | 2,5  | 4                                | 70   | 20                    |
| 13              | 21              | 1,0  | 4                                | 100  | 20                    |
| 13              | 21              | 1,6  | 4                                | 100  | 20                    |
| 13              | 22              | 2,5  | 4                                | 85   | 20                    |
| 16              | 26              | 1,0  | 4                                | 130  | 20                    |
| 16              | 26              | 1,6  | 4                                | 120  | 20                    |
| 16              | 26              | 2,5  | 4                                | 110  | 20                    |
| 19              | 29              | 1,0  | 4                                | 150  | 20                    |
| 19              | 29              | 1,6  | 4                                | 150  | 20                    |
| 19              | 30              | 2,5  | 4                                | 130  | 20                    |
| 25              | 36              | 1,0  | 4                                | 200  | 20                    |
| 25              | 36              | 1,6  | 4                                | 200  | 20                    |
| 25              | 37              | 2,5  | 4                                | 175  | 20                    |

## LEVEGŐTÖMLŐ

### Application:

Recommended for compressors, machines and tools for convey compressed air containing small quantities of oil under heavy working conditions.

**Working temperature:** -25°C to +80°C

### Hose construction:

**Tube:** Black SBR based rubber, moderately oil-resistant NBR-PVC/SBR

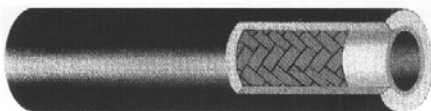
**Reinforcement:** Synthetic textile

**Cover:** Black abrasion and weather resistant NR/SBR based rubber SBR/NR

**Alkalmazás:** Olajnyomatokat is tartalmazó sűrített levegő vezetésére kompresszorokhoz.

**Üzemi hőmérséklet:** -25 °C — +80 °C

## STEAM HOSE



| Belső Ø ID (mm) | Külső Ø OD (mm) | Max üzemnyomás Max. Working Pressure (Mpa) | Biztonsági tényező Safety Factor | Minimális hajlítási sugár Min. Bend. Radius (mm) | Max. Hossz Length (m) |
|-----------------|-----------------|--|----------------------------------|--|-----------------------|
| 13              | 23              | 0,63                                       | 10                               | 80   | 20                    |
| * 13            | 23              | 0,63                                       | 10                               | 80   | 20                    |
| 16              | 27              | 0,63                                       | 10                               | 95   | 20                    |
| * 16            | 27              | 0,63                                       | 10                               | 95   | 20                    |
| 19              | 31              | 0,63                                       | 10                               | 110  | 20                    |
| * 19            | 31              | 0,63                                       | 10                               | 110  | 20                    |
| 25              | 37              | 0,63                                       | 10                               | 150  | 20                    |
| * 25            | 37              | 0,63                                       | 10                               | 150  | 20                    |

\* Galvanized steel wire braiding, outer diameter including braiding

\* Horganyozott acélhuzal beszövással, külső átmérő páncélozással együtt

## GŐZTÖMLŐ

### Application:

Conveying saturated and unsaturated steam and hot water at a max. temperature of +164 °C.

**Max. working pressure when used for water:** 1,2 MPA.

### Hose construction:

**Tube:** black heat resistant EPM based rubber.

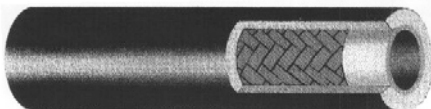
**Reinforcement:** synthetic textile

**Cover:** black heat resistant EPM based rubber

**Alkalmazás:** Telített és telítetlen vízgőz, valamint forró víz szállítása max. + 164 °C hőmérsékleten.

**Forró víz esetén a megengedett max. üzemi nyomás:** 1,2 MPa

## WATER HOSE



| Belső Ø ID (mm) | Külső Ø OD (mm) | Max üzemnyomás Max. Working Pressure (Mpa) | Biztonsági tényező Safety Factor | Minimális hajlítási sugár Min. Bend. Radius (mm) | Max. Hossz Length (m) |
|-----------------|-----------------|--|----------------------------------|--|-----------------------|
| 13              | 19              | 0,63                                       | 3,15                             | -  | 20                    |
| 13              | 20              | 1,00                                       | 3,15                             | 90   | 20                    |
| 13              | 21              | 2,50                                       | 4                                | 80   | 20                    |
| 16              | 23              | 0,63                                       | 3,15                             | -  | 20                    |
| 16              | 24              | 1,00                                       | 3,15                             | 110  | 20                    |
| 16              | 24,5            | 2,50                                       | 4                                | 100  | 20                    |
| 19              | 26              | 0,63                                       | 3,15                             | -  | 20                    |
| 19              | 27,5            | 1,00                                       | 3,15                             | 130  | 20                    |
| 19              | 29              | 2,50                                       | 4                                | 110  | 20                    |
| 25              | 32              | 0,63                                       | 3,15                             | -  | 20                    |
| 25              | 34              | 1,00                                       | 3,15                             | 180  | 20                    |
| 25              | 35              | 2,50                                       | 4                                | 150  | 20                    |

## VÍZTÖMLŐ

### Applicaton:

Conveying industrial water, max. 5% aqueous solution of inorganic acid (except for nitric acid) and alkali.

**Not suitable for potable water!**

**Max. working temperature:** +60 °C.

### Hose construction:

**Tube:** black, moderately chemical resistant SBT/NR based rubber

**Reinforcement:** synthetic textile

**Cover:** black, abrasion and weather resistant SBR/NR based rubber

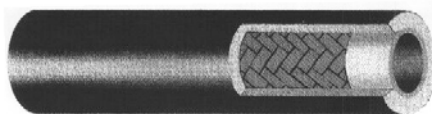
### Alkalmazás:

Ipari víz, szervesetlen savak (kivéve salétromsav) és lúgok max. 5%-os vizes oldatának szállítására.

**Ivóvíz szállítására nem alkalmas!**

**Max. üzemi hőmérséklet:** + 60 °C

## OIL HOSE



| Belső Ø ID (mm) | Külső Ø OD (mm) | Max üzemnyomás Max. Working Pressure (Mpa) | Biztonsági tényező Safety Factor | Minimális hajlítási sugár Min. Bend. Radius (mm) | Max. Hossz Length (m) |
|-----------------|-----------------|--|----------------------------------|--|-----------------------|
| 6               | 14/15           | 1,0  | 3,15                             | 38   | 20                    |
| 6               | 15//15          | 2,0  | 3,15                             | 38   | 20                    |
| 8               | 16/17           | 1,0  | 3,15                             | 48   | 20                    |
| 8               | 16/17           | 2,0  | 3,15                             | 48   | 20                    |
| 10              | 16/17           | 0,63                                       | 3,15                             | -  | 20                    |
| 10              | 17/18           | 1,0  | 3,15                             | 60   | 20                    |
| 10              | 17/18           | 2,0  | 3,15                             | 60   | 20                    |
| 13              | 20/21           | 0,63                                       | 3,15                             | -  | 20                    |
| 13              | 21/22           | 1,0  | 3,15                             | 75   | 20                    |
| 13              | 21/22           | 2,0  | 3,15                             | 75   | 20                    |
| 16              | 23/25           | 0,63                                       | 3,15                             | -  | 20                    |
| 16              | 25/26           | 1,0  | 3,15                             | 95   | 20                    |
| 16              | 25/26           | 2,0  | 3,15                             | 95   | 20                    |
| 19              | 27/28           | 0,63                                       | 3,15                             | -  | 20                    |
| 19              | 29/30           | 1,0  | 3,15                             | 110  | 20                    |
| 19              | 29/30           | 2,0  | 3,15                             | 110  | 20                    |
| 25              | 33              | 0,63                                       | 3,15                             | -  | 20                    |
| 25              | 36              | 1,0  | 3,15                             | 150  | 20                    |
| 25              | 36              | 2,0  | 3,15                             | 150  | 20                    |

## OLAJTÖMLŐ

### Application:

Conveying crude oil and oil derivatives under pressure. Not recommended for conveying PB-gas, high aromatic content and polar solvents.

**Max. aromatic content:** 30%

**Working temperature:** -25 °C — + 70 °C.

### Hose construction:

**Tube:** black, oil resistant NBR/CR

**Reinforcement:** synthetic textile cover

**Cover:** black oil, abrasion and weather resistant NBR-PVC/BR or CR/BR based rubber

### Alkalmazás:

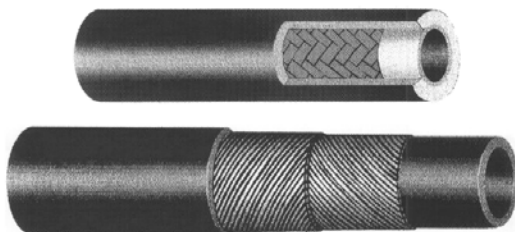
Kőolaj és kőolajszármazékok nyomás alatti vezetésére. PB-gáz, magas aromás tartalmú és poláros oldószerek vezetésére nem alkalmas.

**Max aromástartalom:** 30%.

**Üzemi hőmérséklet:** -25 °C — + 70 °C.



## AIR BREAK HOSE



| Belső Ø<br>ID<br>(mm) | Külső Ø<br>OD<br>(mm) | Max üzemnyomás<br>Max. Working<br>Pressure<br>(Mpa) | Biztonsági<br>tényező<br>Safety Factor | Minimális hajlítási<br>sugár<br>Min. Bend. Radius<br>(mm) | Max.<br>Hossz<br>Length<br>(m) |
|-----------------------|-----------------------|---|--|---|--------------------------------|
| 9                     | 16                    | 1,2   | 3,15                                   | 65  | 20                             |
| * 9                   | 17                    | 1,2   | 3,15                                   | 65  | 20                             |
| 13                    | 25                    | 1,2   | 3,15                                   | 100   | 20                             |
| * 13                  | 26                    | 1,2   | 3,15                                   | 100   | 20                             |

\* Galvanized steel wire braiding, outer diameter including braiding

\* Horganyozott acélhuzal beszövésével, külső átmérő páncélozással együtt

## LÉGFÉKTÖMLŐ

### Application:

Flexible connection for the airbrakes, trailers and other pneumatic systems of vehicles.

Fulfills the specifications of DIN 74 310.

**Working temperature:** -40 °C to + 70 °C

### Hose construction:

**Tube:** black, moderately oil-resistant NBR-PVC/SBR based rubber

**Reinforcement:** synthetic textile cover

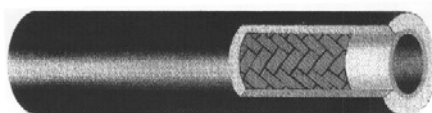
**Cover:** black, oil, abrasion and weather resistant NBR-PVC/BR based rubber

### Alkalmazás:

Járművek légfékeinek, pótkocsijainak, valamint más, sűrített levegővel működő berendezések flexibilis csatlakoztatásához. Kielégíti a DIN 74 310 szabványt

**Üzemi hőmérséklet:** -40 °C — + 70 °C

## RADIATOR HOSE



| Belső Ø<br>ID<br>(mm) | Külső Ø<br>OD<br>(mm) | Max üzemnyomás<br>Max. Working<br>Pressure<br>(Mpa) | Biztonsági<br>tényező<br>Safety Factor | Max.<br>Hossz<br>Length<br>(m) |
|-----------------------|-----------------------|---|--|--------------------------------|
| 8                     | 14                    | 0,16  | 7,5                                    | 20                             |
| 10                    | 15,5                  | 0,16  | 7,5                                    | 20                             |
| 13                    | 19                    | 0,16  | 7,5                                    | 20                             |
| 16                    | 23                    | 0,16  | 7,5                                    | 20                             |
| 19                    | 26                    | 0,16  | 7,5                                    | 20                             |
| 22                    | 29                    | 0,16  | 7,5                                    | 20                             |
| 25                    | 33                    | 0,16  | 7,5                                    | 20                             |

### Application:

Flexible connecting line for the cooling system of motor vehicles.

**Working temperature:** -40 °C to + 100 °C.

### Hose construction:

**Tube:** black, SBR/BR based rubber, resistant to glycol

**Reinforcement:** synthetic textile cover

**Cover:** black, oil, abrasion, ozone and weather resistant NBR-PVC/BR based rubber

### Alkalmazás:

Gépjárművek hűtőrendszerének hajlékony összekötő vezetékékként

**Üzemi hőmérséklet:** -40 °C — + 70 °C

## HŰTŐTÖMLŐ

## FUEL HOSE



| Belső Ø<br>ID<br>(mm) | Külső Ø<br>OD<br>(mm) | Minimális hajlítási sugár<br>Min. Bend. Radius<br>(mm) | Max. Hossz<br>Length<br>(m) |
|-----------------------|-----------------------|--|-----------------------------|
| 5                     | 10                    | 110  | 20                          |
| 6                     | 11                    | 120  | 20                          |
| 7                     | 12                    | 140  | 20                          |
| 8                     | 13                    | 160  | 20                          |
| 10                    | 15                    | 180  | 20                          |
| 13                    | 17                    | 200  | 20                          |

### Application:

Flexible fuel hose for vehicles

**Working temperature:** -25 °C to + 100 °C

### Hose construction:

**Tube:** black, petrol and diesel oil resistant NBR based rubber

**Cover:** galvanized steel wire braiding

### Alkalmazás:

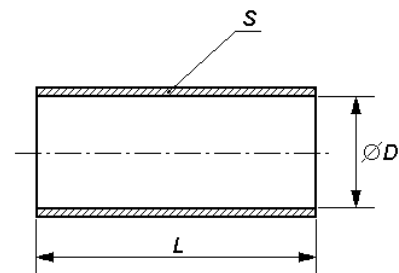
Gépjárművek hajlékony vezetékékként, üzemanyag vezetésére szolgál.

**Üzemi hőmérséklet:** : -25 °C — + 100 °C

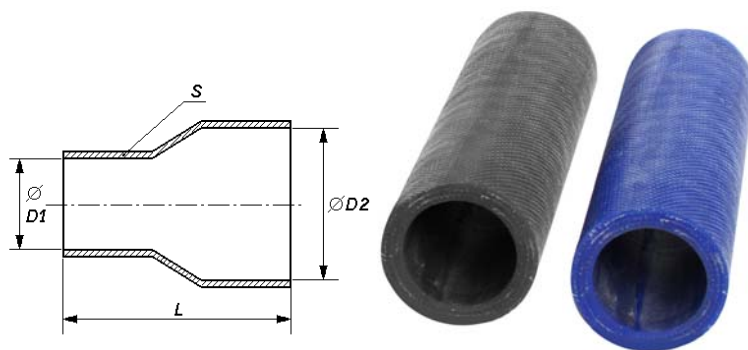
## ÜZEMANYAGTÖMLŐ



| Attribute<br>Tulajdonság                               | Type of limite value<br>Határérték típusa | Requirement<br>Követelmény | Measure<br>Mértékegység |
|--|---|----------------------------|-------------------------|
| Hardness / Keménység                                   | -   | 65 ±5                      | Sh° A                   |
| Tensile strength<br>Szakítószilárdság                  | Minimum                                   | 5                          | Mpa                     |
| Tear stretching<br>Szakadási nyúlás                    | Minimum                                   | 300                        | %                       |
| Továbbhasadási ellenállás                              | Minimum                                   | 12                         | N/m                     |
| <b>Aging resistance / Öregedésállóság</b>              |   |                            |                         |
| - Hardness alteration<br>- Keménység változás          | Maximum                                   | 6                          | Sh° A                   |
| - Tensile strength alteration<br>- Szak.szil. változás | Maximum                                   | 5                          | %                       |
| - Tear stretching alteration<br>- Szak.nyúl. változás  | Maximum                                   | 20                         | %                       |
| <b>Liquid resistance / Folyadékállóság</b>             |   |                            |                         |
| - Cubic capacity<br>- Térfogatváltozás                 | Maximum                                   | 10                         | %                       |



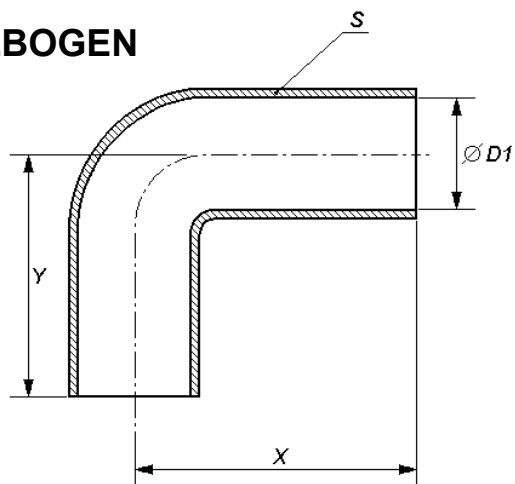
| D (mm) | D tolerance (mm) | L (mm) | S (mm)  |
|--------|------------------|--------|---------|
| 10     | +0 / -1          | 10(00) | 4 +1/-0 |
| 15     | +0 / -1          | 1000   | 4 +1/-0 |
| 16     | +0 / -1          | 1000   | 4 +1/-0 |
| 18     | +0 / -1          | 1000   | 4 +1/-0 |
| 19     | +0 / -1          | 1000   | 4 +1/-0 |
| 20     | +0 / -1          | 1000   | 4 +1/-0 |
| 22     | +0 / -1          | 1000   | 4 +1/-0 |
| 25     | +0 / -1          | 1000   | 4 +1/-0 |
| 28     | +0 / -1          | 1000   | 4 +1/-0 |
| 30     | +0 / -1          | 1000   | 4 +1/-0 |
| 30,2   | +0 / -1          | 1000   | 4 +1/-0 |
| 35     | +0 / -1          | 1000   | 4 +1/-0 |
| 38     | +0 / -1          | 1000   | 4 +1/-0 |
| 45     | +0 / -1          | 1000   | 4 +1/-0 |
| 50,8   | +0 / -1          | 1000   | 5 +1/-0 |
| 55     | +0 / -1          | 1000   | 5 +1/-0 |
| 60     | +0 / -1          | 1000   | 5 +1/-0 |
| 80     | +0 / -1          | 1000   | 5 +1/-0 |
| 127    | +0 / -1          | 1000   | 5 +1/-0 |
| 15     | +0 / -1          | 100    | 4 +1/-0 |
| 15     | +0 / -1          | 120    | 4 +1/-0 |
| 35     | +0 / -1          | 100    | 4 +1/-0 |
| 35     | +0 / -1          | 120    | 4 +1/-0 |
| 127    | +0 / -1          | 85     | 5 +1/-0 |
| 127    | +0 / -1          | 100    | 5 +1/-0 |
| 127    | +0 / -1          | 120    | 5 +1/-0 |
| 129    | +0 / -1          | 60     | 5 +1/-0 |
| 129    | +0 / -1          | 85     | 5 +1/-0 |
| 129    | +0 / -1          | 100    | 5 +1/-0 |
| 150    | +0 / -1          | 100    | 5 +1/-0 |



| D1/D2 | D tolerance (mm) | L (mm)                    | S (mm) |
|-------|------------------|---------------------------|--------|
| 20/30 | +0/-1            | FREE CHOICE / TETSZŐLEGES | 4+1/-0 |
| 35/38 | +0/-1            |                           | 4+1/-0 |
| 40/70 | +0/-1            |                           | 4+1/-0 |
| 50/55 | +0/-1            |                           | 4+1/-0 |
| 50/60 | +0/-1            |                           | 4+1/-0 |
| 50/70 | +0/-1            |                           | 4+1/-0 |
| 50/90 | +0/-1            |                           | 4+1/-0 |
| 60/70 | +0/-1            |                           | 4+1/-0 |
| 60/75 | +0/-1            |                           | 4+1/-0 |

DIN 53 505-2000

# GUMMI ELBOGEN

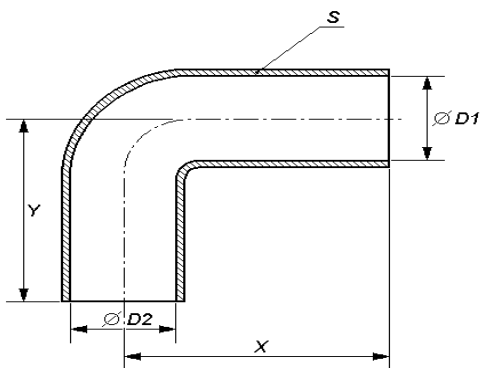


# KÖNYÖKÖK

| D1 / D2 [ mm ] | D1,2 tolerance [ mm ] | $\alpha$ [ ° ] | X [ mm ] | Y [ mm ] | S [ mm ] |
|----------------|-----------------------|----------------|----------|----------|----------|
| 15             | +0 / -1               | 90             | 46       | 46       | 4 +1/-0  |
| 15             | +0 / -1               | 90             | 100      | 100      | 4 +1/-0  |
| 16             | +0 / -1               | 90             | 60       | 60       | 4 +1/-0  |
| 16             | +0 / -1               | 90             | 100      | 100      | 4 +1/-0  |
| 22             | +0 / -1               | 90             | 56       | 56       | 4 +1/-0  |
| 22             | +0 / -1               | 90             | 100      | 100      | 4 +1/-0  |
| 28             | +0 / -1               | 90             | 65       | 65       | 4 +1/-0  |
| 28             | +0 / -1               | 90             | 100      | 100      | 4 +1/-0  |
| 28,6           | +0 / -1               | 90             | 66       | 66       | 4 +1/-0  |
| 35             | +0 / -1               | 90             | 76       | 76       | 4 +1/-0  |
| 35             | +0 / -1               | 90             | 100      | 100      | 4 +1/-0  |
| 44,5           | +0 / -1               | 90             | 90       | 90       | 4 +1/-0  |
| 50             | +0 / -1               | 90             | 100      | 100      | 4 +1/-0  |
| 50,8           | +0 / -1               | 90             | 100      | 100      | 4 +1/-0  |
| 50,8           | +0 / -1               | 105            | 100      | 100      | 4 +1/-0  |
| 60,4           | +0 / -1               | 90             | 100      | 100      | 5 +1/-0  |
| 63,6           | +0 / -1               | 90             | 123      | 123      | 5 +1/-0  |
| 127            | +0 / -1               | 90             | 178      | 178      | 5 +1/-0  |
| 22 / 31,8      | +0 / -1               | 90             | 100      | 100      | 4 +1/-0  |
| 38 / 28        | +0 / -1               | 90             | 100      | 100      | 4 +1/-0  |
| 38 / 31,5      | +0 / -1               | 90             | 100      | 100      | 4 +1/-0  |
| 38 / 35        | +0 / -1               | 90             | 100      | 100      | 4 +1/-0  |
| 60 / 50        | +0 / -1               | 90             | 76       | 76       | 5 +1/-0  |
| 60 / 50        | +0 / -1               | 90             | 100      | 100      | 5 +1/-0  |
| 60 / 50,8      | +0 / -1               | 110            | 100      | 100      | 5 +1/-0  |
| 60 / 52        | +0 / -1               | 90             | 100      | 100      | 5 +1/-0  |
| 60 / 52        | +0 / -1               | 90             | 102      | 102      | 5 +1/-0  |
| 70 / 60        | +0 / -1               | 90             | 220      | 250      | 5 +1/-0  |

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| Attribute<br>Tulajdonság                               | Type of limite value<br>Határérték típusa | Requirement<br>Követelmény | Measure<br>Mértékegység |
|--|---|----------------------------|-------------------------|
| Hardness / Keménység                                   | -   | 65 ±5                      | Sh° A                   |
| Tensile strength<br>Szakítószilárdság                  | Minimum                                   | 5                          | Mpa                     |
| Tear stretching<br>Szakadási nyúlás                    | Minimum                                   | 300                        | %                       |
| Továbbhasadási ellenállás                              | Minimum                                   | 12                         | N/m                     |
| <b>Aging resistance / Öregedésállóság</b>              |   |                            |                         |
| - Hardness alteration<br>- Keménység változás          | Maximum                                   | 6                          | Sh° A                   |
| - Tensile strength alteration<br>- Szak.szil. változás | Maximum                                   | 5                          | %                       |
| - Tear stretching alteration<br>- Szak.nyúl. változás  | Maximum                                   | 20                         | %                       |
| <b>Liquid resistance / Folyadékállóság</b>             |   |                            |                         |
| - Cubic capacity<br>- Térfogatváltozás                 | Maximum                                   | 10                         | %                       |



| Ellenállóképesség         | Mechanikai tulajdonságok szobahőmérsékleten    | Termikus viselkedés | Keménységtartomány, Shore | Nemzetközi rövidítés | Natural Rubber        | Styrene-Butadiene Rubber | Ethylene-Propylene-Diene Monomer | Silicone Elastomer | Chloroprene Rubber | Nitrile-Butadiene Rubber | Shore hardness | International abbreviation | <ul style="list-style-type: none"> <li>● = Excelent</li> <li>◐ = Good</li> <li>◑ = Satisfactory</li> <li>⊙ = Sufficient</li> <li>⊖ = Adverse</li> <li>○ = Complately inadequate</li> </ul> |                      |                        |                             |                      |                      |                     |                     |                            |
|---------------------------|--|---------------------|---------------------------|----------------------|-----------------------|--------------------------|----------------------------------|--------------------|--------------------|--------------------------|----------------|----------------------------|--|----------------------|------------------------|-----------------------------|----------------------|----------------------|---------------------|---------------------|----------------------------|
|                           |  |                     |                           |                      |                       |                          |                                  |                    |                    |                          |                |                            |  | Maradandó deformáció | Magas hőm.             | Alacsony hőm.               | Hőállóság            | Hidegállóság         | Benzin              | Asványolaj (100 C°) | Savak (25%-os H2SO4, 50C°) |
| Resistance                | Mechanckal Characteristics at room temperature | Thermal charact.    | 30-90                     | NBR                  | Natural Rubber        | SBR                      | EPDM                             | VMQ                | CR                 | NBR                      | 25-90          | 30-95                      | Tensile strength   |                      |                        |                             |                      |                      |                     |                     |                            |
|                           |  |                     |                           |                      |                       |                          |                                  |                    |                    |                          |                |                            |  | Tear stretching      |                        |                             |                      |                      |                     |                     |                            |
|                           |  |                     |                           |                      |                       |                          |                                  |                    |                    |                          |                |                            |  |                      | Reboundance elasticity |                             |                      |                      |                     |                     |                            |
|                           |  |                     |                           |                      |                       |                          |                                  |                    |                    |                          |                |                            |  |                      |                        | Persisting tensile strength |                      |                      |                     |                     |                            |
|                           |  |                     |                           |                      |                       |                          |                                  |                    |                    |                          |                |                            |  |                      |                        |                             | Temperature interval |                      |                     |                     |                            |
|                           |  |                     |                           |                      |                       |                          |                                  |                    |                    |                          |                |                            |  |                      |                        |                             |                      | Attrition resistance |                     |                     |                            |
|                           |  |                     |                           |                      |                       |                          |                                  |                    |                    |                          |                |                            |  |                      |                        |                             |                      |                      | Durable Deformation | High temperature    |                            |
|                           |  |                     |                           |                      |                       |                          |                                  |                    |                    |                          |                |                            |  |                      |                        |                             |                      |                      |                     | Low temperature.    |                            |
|                           |  |                     |                           |                      |                       |                          |                                  |                    |                    |                          |                |                            |  |                      |                        |                             |                      |                      | Cold resistance     |                     |                            |
|                           |  |                     |                           |                      |                       |                          |                                  |                    |                    |                          |                |                            |  |                      |                        |                             |                      |                      |                     | Heat resistance     |                            |
|                           |  |                     |                           |                      |                       |                          |                                  |                    |                    |                          |                |                            |  |                      |                        |                             |                      |                      |                     |                     | Fuel/Patrol                |
|                           |  |                     |                           |                      |                       |                          |                                  |                    |                    |                          |                |                            |  |                      |                        |                             |                      |                      |                     |                     |                            |
| Acid (25%-os H2SO4, 50C°) |  |                     |                           |                      |                       |                          |                                  |                    |                    |                          |                |                            |  |                      |                        |                             |                      |                      |                     |                     |                            |
|                           | Alkali (25%-os NaOH, 50C°)                     |                     |                           |                      |                       |                          |                                  |                    |                    |                          |                |                            |  |                      |                        |                             |                      |                      |                     |                     |                            |
|                           |  | Water (100 Co-on)   |                           |                      |                       |                          |                                  |                    |                    |                          |                |                            |  |                      |                        |                             |                      |                      |                     |                     |                            |
|                           |  |                     | Weather and Ozon          |                      |                       |                          |                                  |                    |                    |                          |                |                            |  |                      |                        |                             |                      |                      |                     |                     |                            |
|                           |  |                     |                           | UV                   |                       |                          |                                  |                    |                    |                          |                |                            |  |                      |                        |                             |                      |                      |                     |                     |                            |
|                           |  |                     |                           |                      | Permeability to gases |                          |                                  |                    |                    |                          |                |                            |  |                      |                        |                             |                      |                      |                     |                     |                            |

## DIN 7715 TOLERANCE FOR COMPRESSED MOULDED PRODUCTS

| Nominal measurement |            | class M1               |      | class M2 |      | class M3 |     | class M4 |     |  |  |
|---------------------|------------|------------------------|------|----------|------|----------|-----|----------|-----|--|--|
|                     |            | F                      | C    | F        | C    | F        | C   | F        | C   |  |  |
|                     |            | ±                      | ±    | ±        | ±    | ±        | ±   | ±        | ±   |  |  |
|                     |            | <b>Tolerance in mm</b> |      |          |      |          |     |          |     |  |  |
|                     | to 2,5     | 0,08                   | 0,08 | 0,1      | 0,15 | 0,25     | 0,4 | 0,5      | 0,5 |  |  |
| over                | 2,5 to 4   | 0,08                   | 0,1  | 0,1      | 0,15 | 0,25     | 0,4 | 0,5      | 0,5 |  |  |
| over                | 4 to 6,3   | 0,1                    | 0,1  | 0,15     | 0,2  | 0,25     | 0,4 | 0,5      | 0,5 |  |  |
| over                | 6,3 to 10  | 0,1                    | 0,15 | 0,2      | 0,2  | 0,3      | 0,5 | 0,7      | 0,7 |  |  |
| over                | 10 to 16   | 0,15                   | 0,20 | 0,2      | 0,25 | 0,4      | 0,6 | 0,8      | 0,8 |  |  |
| over                | 16 to 25   | 0,2                    | 0,20 | 0,25     | 0,35 | 0,5      | 0,8 | 1,0      | 1,0 |  |  |
| over                | 25 to 40   | 0,2                    | 0,25 | 0,35     | 0,4  | 0,6      | 1,0 | 1,3      | 1,3 |  |  |
| over                | 40 to 63   | 0,25                   | 0,35 | 0,4      | 0,5  | 0,8      | 1,3 | 1,6      | 1,6 |  |  |
| over                | 63 to 100  | 0,35                   | 0,4  | 0,5      | 0,7  | 1,0      | 1,6 | 2,0      | 2,0 |  |  |
| over                | 100 to 160 | 0,4                    | 0,5  | 0,7      | 0,8  | 1,3      | 2,0 | 2,5      | 2,5 |  |  |
|                     |            | <b>Tolerance in %</b>  |      |          |      |          |     |          |     |  |  |
| over                | 160        | 0,3                    | 0,4  | 0,5      | 0,7  | 0,80     | 1,3 | 1,5      | 1,5 |  |  |

## DIN 7715 TOLERANCE FOR EXTRUDED RUBBER PROFILES

| Nominal measurement |               | Tolerance ± |
|---------------------|---------------|-------------|
|                     | to 2,5        | 0,5         |
| over                | 2,5 to 4,0    | 0,7         |
| over                | 4,0 to 6,3    | 0,8         |
| over                | 6,3 to 10,0   | 1,0         |
| over                | 10,0 to 16,0  | 1,3         |
| over                | 16,0 to 25,0  | 1,6         |
| over                | 25,0 to 40,0  | 2,0         |
| over                | 40,0 to 63,0  | 2,5         |
| over                | 63,0 to 100,0 | 3,2         |

| Nominal measurement |            | Measurement without tolerance |
|---------------------|------------|-------------------------------|
|                     |            | Accuracy „ROUGH”              |
|                     |            | <b>Tolerance in mm</b>        |
|                     | to 3       | ±0,4                          |
| over                | 3 to 6     | ±0,5                          |
| over                | 6 to 10    | ±0,6                          |
| over                | 10 to 18   | ±0,8                          |
| over                | 18 to 30   | ±1                            |
| over                | 30 to 50   | ±1,5                          |
| over                | 50 to 80   | ±2                            |
| over                | 80 to 120  | ±2,5                          |
| over                | 120 to 180 | ±3                            |
| over                | 180 to 250 | ±4                            |
| over                | 250 to 315 | ±5                            |
| over                | 315 to 400 | ±6                            |
| over                | 400 to 500 | ±7                            |
|                     |            | <b>Tolerance in %</b>         |
| over                | 500        | ±1,5                          |

### Important notice!

The static load data may have a tolerance of ±20% (due to manufacturing or Sh° hardness differences)



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