



Ever since the Earth occupied its place in the universe our planet has been on a constant move. Nature and the human kind have been trying to establish and maintain a peaceful coexistence but Man himself, with his technical gadgets, creates the greatest obstacle to a harmonious symbiosis. Right from the invention of the wheel everything runs and moves, knocks and jolts, thumps and thuds, strikes and strucks, smashes and clashes, shakes and crashes, whangs and bangs, bumps and dumps, hits, wobbles, shocks and quavers – and above all: vibrates... under the surface and on the face of our beautiful and only Globe.

Man has obtained almost everything but had lost the precious treasure of the innocent times – silence...

We can help you to regain this invaluable asset as we can provide you the answer – the silent solution is at your reach: META-VULK

The world is in motion – so are we.



Meta-Vulk, Hungary offers a vast variety of high quality technical rubber products - moulded rubber, rubber-to-metal bonded items and extruded sealing profiles: from vibration dampers to machine-feet, from cable lead-though to door stops, from pipe holders to truck bumpers. Automotive, household and heavy industry, building – and machine building industry, aerospace, military, naval, rail, road, mining industry are among our valued customers.

Make your choice from our standard program or honour us with your specific inquiry – we would be pleased to offer a solution from our product groups made of NR, SBR,NBR, EPDM, CR or SILICON with a hardness range of Sh 25 – 90.





International Certification

# CERTIFICATE

The certifying location of Eupont Cert Kft. hereby certifies that it has audited the quality control system introduced by



**Meta-Vulk Kft.**

**H-2038 Sósút, Ipari Park Hrsz. 3587/2**

and operated in the areas of

**trading of technical rubber parts**

and it has established that said system is compliant with the requirements of the **EN ISO 9001:2008** Standard.



Exclusions: 7.3., 7.5.2.

Valid until: **30.04.2013.**

A precondition of certificate validity is having a successful review carried out annually.

Certificate Registration No. **MR 114 10 EU**

Budapest, 30.04.2010.

  
Head of the certification department

Eupont Cert Rendszertanúsító Kft. 1126 Budapest, Márvány u. 27. [www.eupontcert.eu](http://www.eupontcert.eu)


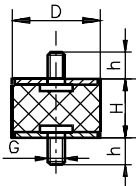
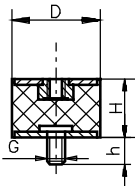
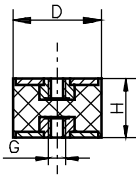
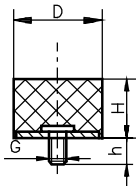
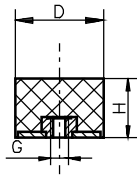


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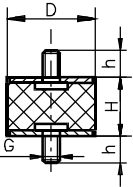
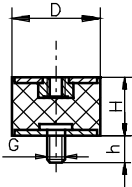
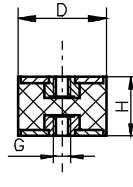
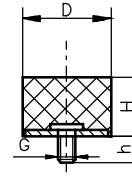
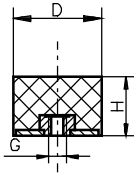
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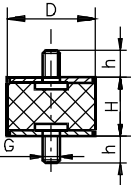
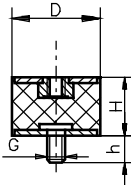
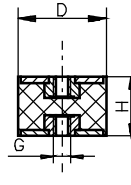
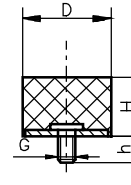
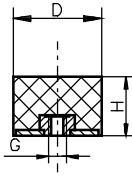
## STANDARD VIBRATION DAMPERS

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| 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<br>M3xh/M3<br>M4xh/M4<br>M5xh/M5 | M3  | M3xh<br>M4xh<br>M5xh | M3<br>M4<br>M5  |  |   |  |   |  |
| 10  | 10 |   |   | M3  |                      |   |  |   |  |   |  |
| 10  | 15 |   |   | M3  |                      |   |  |   |  |   |  |
| 10  | 17 |   |   | M4  |                      |   |  |   |  |   |  |
| 10  | 18 |   |   | M5  |                      |   |  |   |  |   |  |
| 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/M4<br>M4xh/M4<br>M5xh/M5                       | M3<br>M3<br>M4<br>M3<br>M4<br>M3<br>M4<br>M5                                      | M4xh<br>M5xh         | M3<br>M4<br>M5  |  |   |  |   |  |
| 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 |   |   |   |                      |   |  |   |  |   |  |


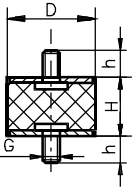
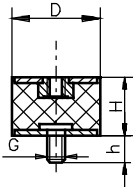
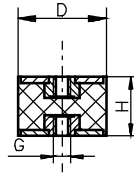
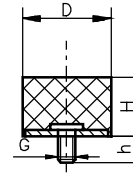
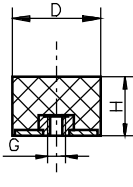
| G  | h                            |
|----|------------------------------|
| M3 | 4,6,10                       |
| M4 | 6,8,10                       |
| M5 | 10,12,15                     |
| M6 | 6,8,10,12,15,18,20,23,28     |
| M8 | 8,10,12,15,18,20,23,25,28,33 |

|  |    |  |  |  |  |  |
|--|----|--|--|--|--|--|
| 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<br>M8xh   | M6xh/M6<br>M8xh/M8   | M6<br>M8   | M6xh<br>M8xh   | M6<br>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  |  |  |  | M8xh   |  |
| 50   | 9  | M8xh   |  |  | M10xh  |  |
| 50   | 12 |  |  |  | M8xh   | M8   |
| 50   | 15 | M8xh   |  |  | M10xh  |  |
| 50   | 17 | M10xh  |  |  | M12xh  | M8   |
| 50   | 20 | M12xh  | M8xh/M8  | M8   |  | M10  |
| 50   | 21 |  | M10xh/M10  | M8   |  | M12  |
| 50   | 25 |  | M12xh/M12  | M8   |  |  |
| 50   | 27 |  |  | M10  |  |  |
| 50   | 28 |  |  | M8   |  |  |
| 50   | 30 |  |  | M10  |  |  |
| 50   | 35 |  |  | M12  |  |  |
| 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  |
| 60   | 30 | M10xh  | M10xh/M10  | M10  |  | M12  |
| 60   | 35 | M12xh  | M8xh/M8  | M8   |  |  |
| 60   | 40 |  | M10xh/M10  | M10  |  |  |
| 60   | 45 |  | M12xh/M12  | M12  |  |  |
| 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    |

|  |     |  |  |  |  |  |
|--|-----|--|--|--|--|--|
| 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 |  |  |  |  |  |
| 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

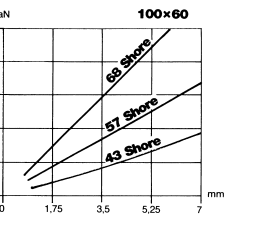
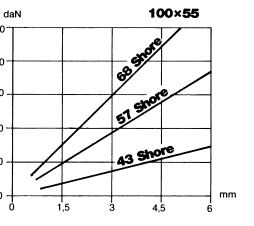
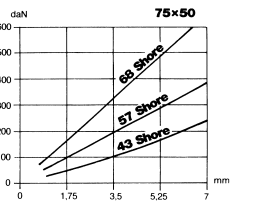
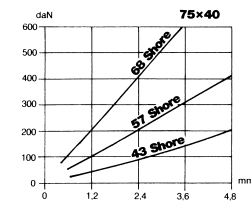
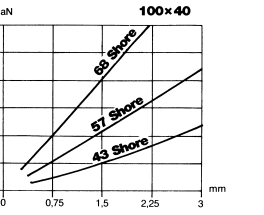
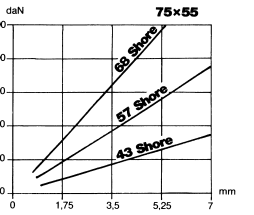
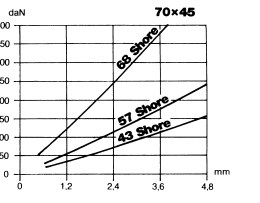
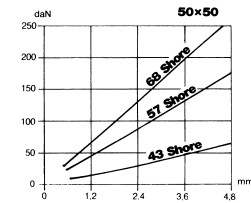
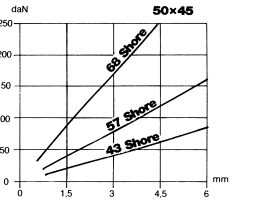
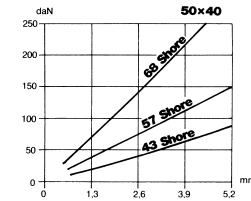
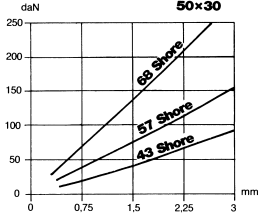
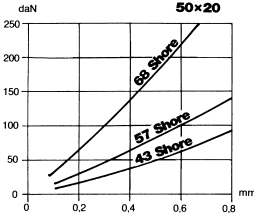
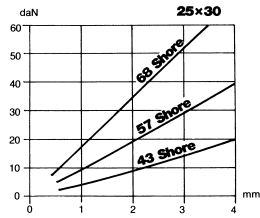
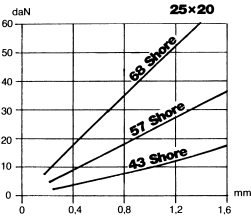
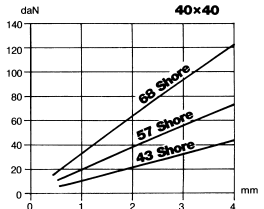
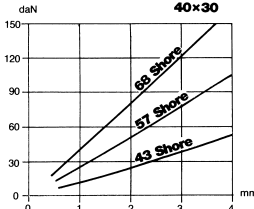
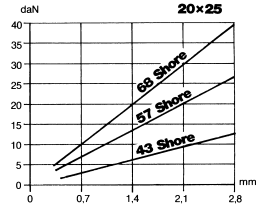
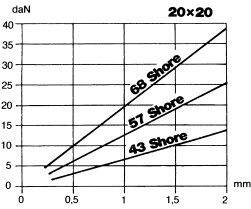
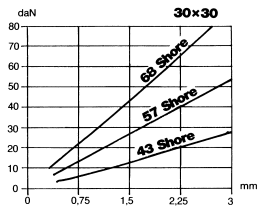
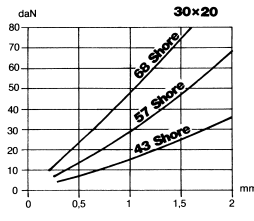
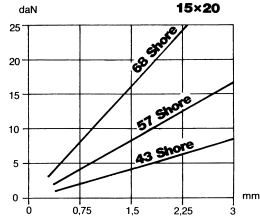
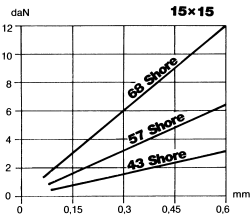
## TYPE 1

| 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   |

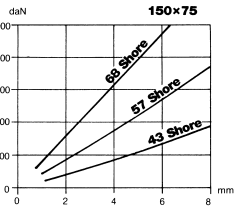
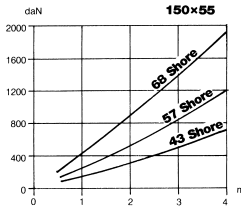
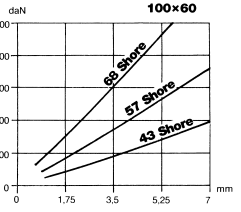
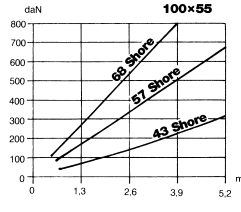
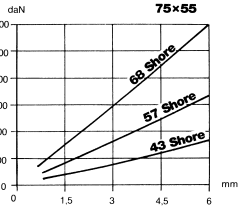
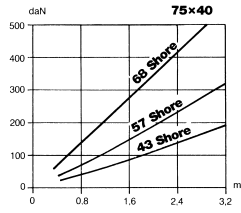
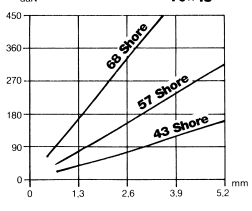
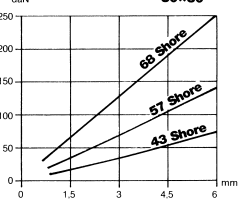
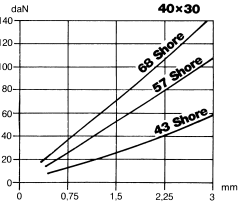
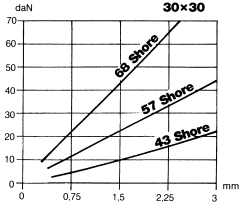
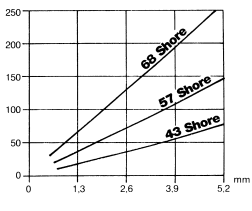
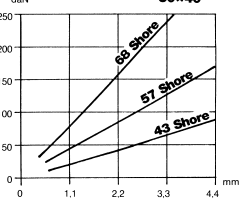
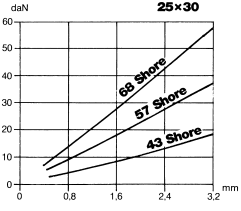
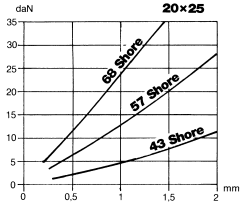
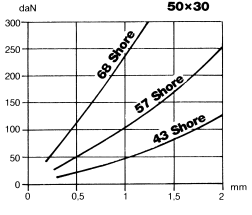
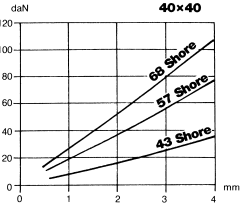
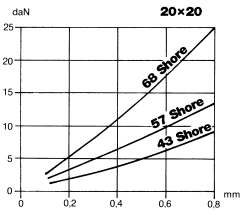
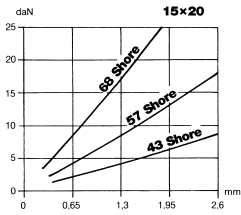
| D   | H   | f [mm] | Fv [daN] |        |        |
|-----|-----|--------|----------|--------|--------|
|     |     |        | 43Sh     | 57Sh   | 68Sh   |
| 50  | 30  | 1,5    | 27,5     | 60     | 126    |
|     |     | 3      | 58       | 125,5  | 263    |
|     |     | 4,5    | 91,5     | 198    | 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   |

# LOAD DIAGRAM

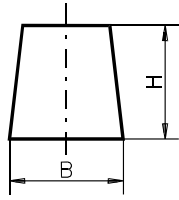
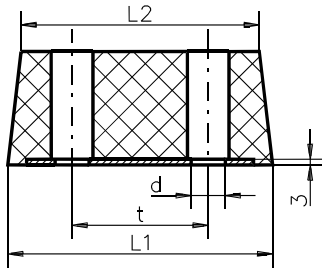
## TYPE 2



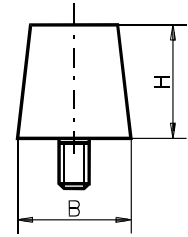
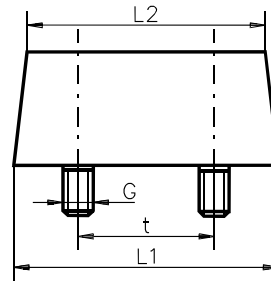
# TYPE 3



### RP-OG

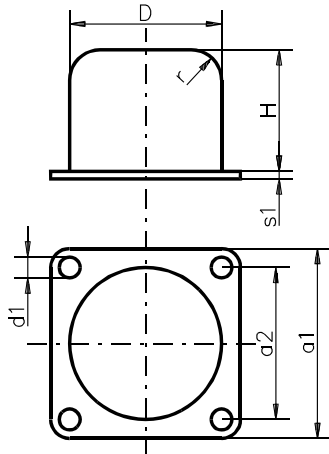


### RP-2G

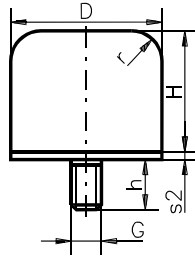


| Type | L1  | L2  | B   | H   | t  | G      | d  |
|------|-----|-----|-----|-----|----|--------|----|
| 150  | 150 | 136 | 60  | 60  | 70 | M10x32 | 11 |
| 200  | 200 | 168 | 100 | 100 | 90 | M12x36 | 13 |

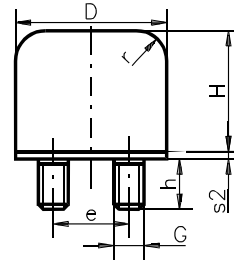
### GP-QP



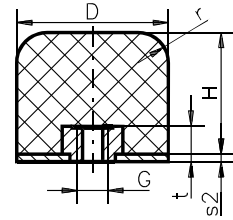
### GP-1G



### GP-2G

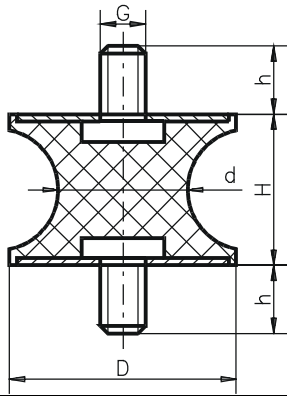


### GP-1I

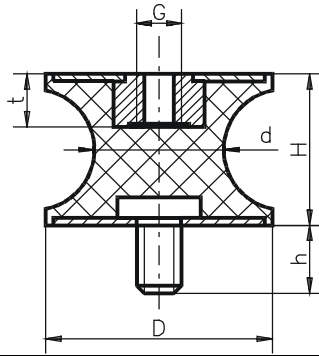


| Type    | D<br>mm | H<br>mm | Measurement |          |         |         |         |         |         |          |          |         | Load capacity |         |        |
|---------|---------|---------|-------------|----------|---------|---------|---------|---------|---------|----------|----------|---------|---------------|---------|--------|
|         |         |         | 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   |

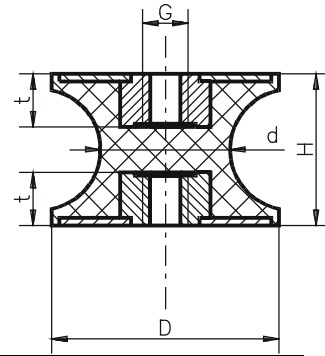
### TP1



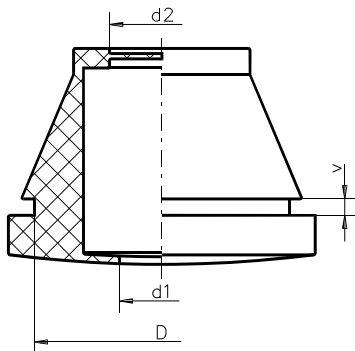
### TP2



### TP3



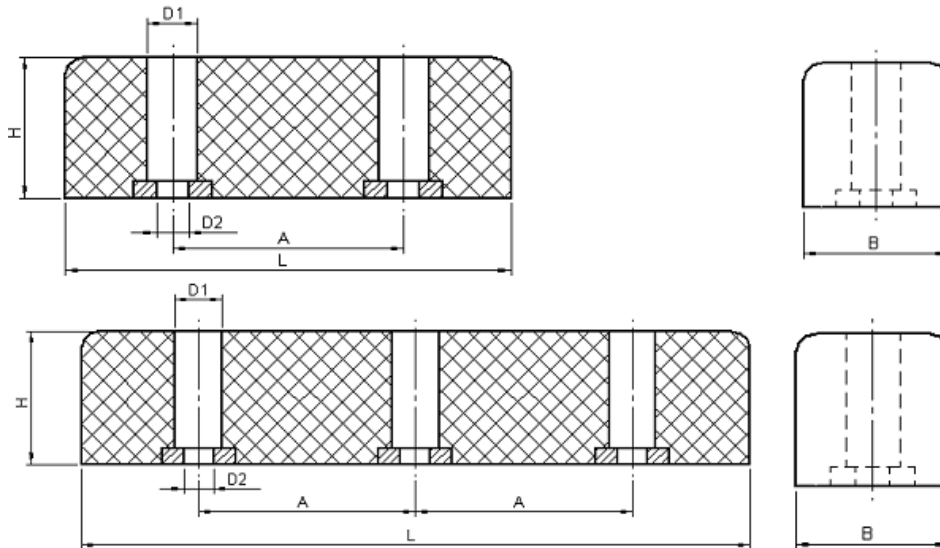
| D/d-H      | D   | d    | H  | G   | h  | t  |
|------------|-----|------|----|-----|----|----|
| 10/4,5-8   | 10  | 4,5  | 8  | M3  | 6  | 3  |
| 10/8-10    | 10  | 8    | 10 | M4  | 10 | 4  |
| 15/8,5-15  | 15  | 8,5  | 15 | M4  | 10 | 4  |
| 15/12-15   | 15  | 12   | 15 | M4  | 10 | 4  |
| 20/12-30   | 20  | 12   | 30 | M6  | 18 | 6  |
| 20/14-19   | 20  | 14   | 19 | M6  | 18 | 6  |
| 20/14-15   | 20  | 14   | 15 | M4  | 10 | 4  |
| 20/14-30   | 20  | 14   | 30 | M4  | 10 | 4  |
| 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 | M6  | 15 | 6  |
| 30/19,5-41 | 30  | 19,5 | 41 | M8  | 20 | 8  |
| 40/25-30   | 40  | 25   | 30 | M8  | 23 | 8  |
| 40/33-30   | 40  | 33   | 30 | M8  | 23 | 8  |
| 40/20-48   | 40  | 20   | 48 | M8  | 23 | 8  |
| 46/40-25   | 46  | 40   | 25 | M10 | 28 | 10 |
| 50/42-30   | 50  | 42   | 30 | M10 | 28 | 10 |
| 55/44-45   | 55  | 44   | 45 | M8  | 28 | 8  |
| 57/25-44   | 57  | 25   | 44 | M10 | 28 | 10 |
| 57/45-44   | 57  | 45   | 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 |
| 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 |



### CABLE LEAD-THROUGH

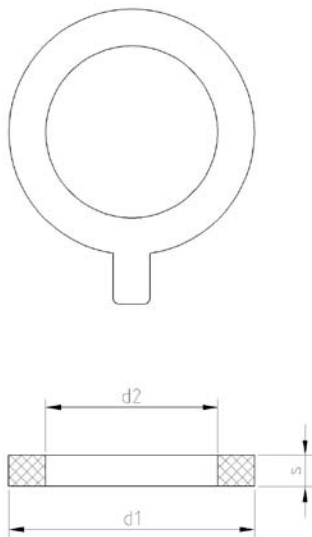
| Type  | d1 | d2  | D  | v |
|-------|----|-----|----|---|
| 5-7   | 4  | 4,5 | 16 | 1 |
| 7-10  | 6  | 7   | 18 | 2 |
| 10-14 | 8  | 9   | 23 | 2 |
| 14-20 | 13 | 14  | 28 | 2 |
| 20-26 | 16 | 19  | 38 | 3 |
| 26-35 | 21 | 25  | 48 | 3 |

## TAB

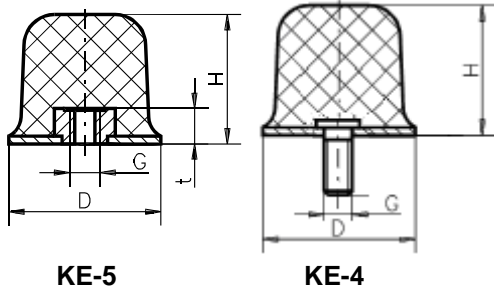


| Type   | H  | L   | B  | Nr OF HOLES | A   | D1   | D2   |
|--------|----|-----|----|-------------|-----|------|------|
| TAB-1  | 15 | 125 | 40 | 2           | 60  | 19,7 | 8    |
| TAB-2  | 40 | 125 | 40 | 2           | 60  | 19,8 | 8    |
| TAB-3  | 50 | 125 | 43 | 2           | 60  | 20,3 | 8    |
| 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 | 35 | 315 | 60 | 3           | 157 | 26   | 12,5 |

## BOLT-LOCK SEAL

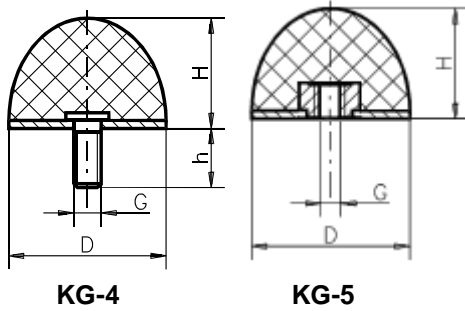


| Type    | d1  | d2   | S mm | DN(NA) |
|---------|-----|------|------|--------|
| 40/86   | 40  | 86   | 3    | 40     |
| 49/91,2 | 49  | 91,2 | 3    | 50     |
| 90/138  | 90  | 138  | 3    | 80     |
| 113/160 | 113 | 160  | 3    | 100    |
| 140/191 | 140 | 191  | 3    | 125    |
| 163/215 | 163 | 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    |



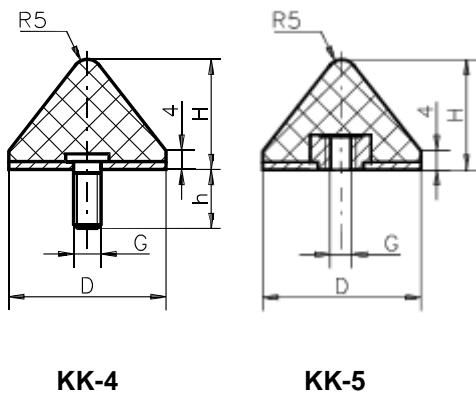
## KE

| Type  | D  | H  | G   | H/t |
|-------|----|----|-----|-----|
| 50/35 | 50 | 35 | M10 | 10  |



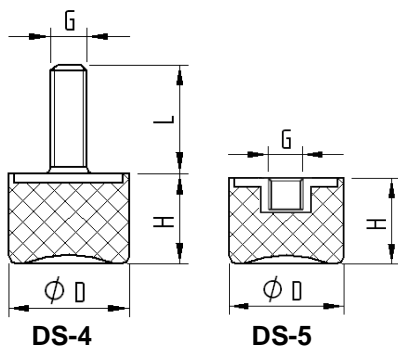
## KG

| D/H   | D  | H  | G  | h  |
|-------|----|----|----|----|
| 25/13 | 25 | 13 | M6 | 10 |
| 25/15 | 25 | 15 | M6 | 18 |
| 30/26 | 30 | 26 | M8 | 48 |



## KK

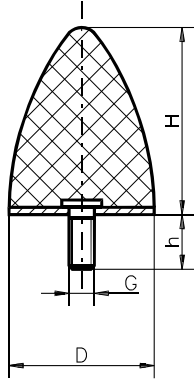
| D/H   | D  | H  | G   | h  |
|-------|----|----|-----|----|
| 24/17 | 24 | 17 | M8  | 20 |
| 25/16 | 25 | 16 | M8  | 20 |
| 40/24 | 40 | 24 | M8  | 28 |
| 50/28 | 50 | 28 | M8  | 28 |
| 50/45 | 50 | 45 | M10 | 35 |
| 60/45 | 60 | 45 | M10 | 28 |
| 85/65 | 85 | 65 | M12 | 37 |



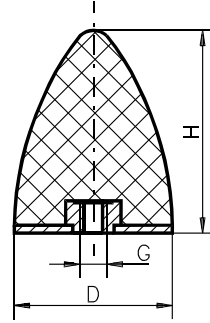
## DS

| 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 |
| 40/28   | 40 | 28   | M8  | 10 |
| 50/28   | 50 | 28   | M10 | 33 |
| 70/43   | 70 | 43   | M10 | 28 |
| 75/37   | 75 | 37   | M12 | 37 |

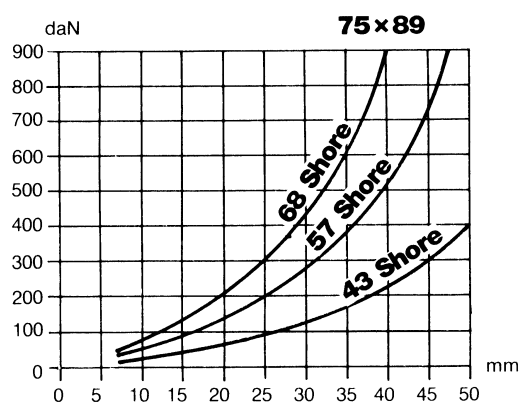
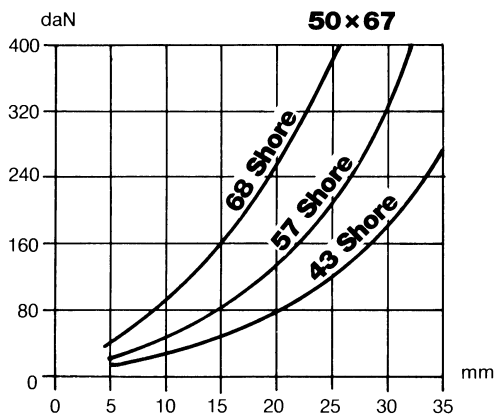
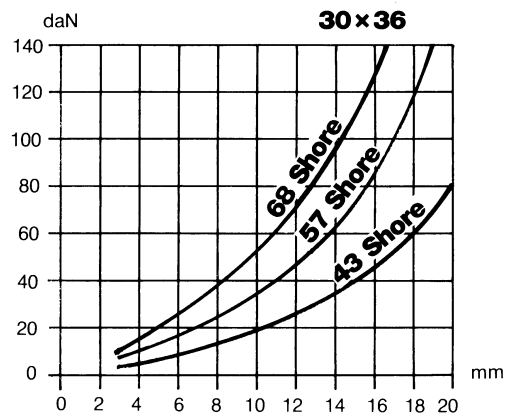
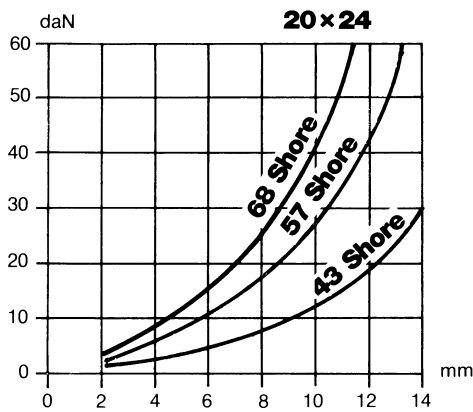
### KP-D



### KP-E

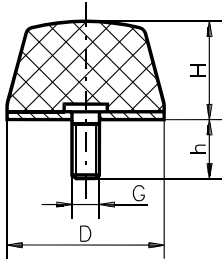


| D/H    | D   | H  | G   | h  |
|--------|-----|----|-----|----|
| 10/10  | 10  | 10 | M5  | 12 |
| 15/22  | 15  | 22 | M6  | 18 |
| 20/15  | 20  | 15 | M6  | 10 |
| 20/24  | 20  | 24 | M6  | 18 |
| 25/16  | 25  | 16 | M6  | 18 |
| 25/20  | 25  | 20 | M6  | 18 |
| 30/30  | 30  | 30 | M8  | 20 |
| 30/36  | 30  | 36 | M8  | 20 |
| 35/40  | 35  | 40 | M8  | 23 |
| 50/50  | 50  | 50 | M10 | 28 |
| 50/61  | 50  | 61 | M8  | 28 |
| 50/67  | 50  | 67 | M8  | 33 |
| 50/68  | 50  | 68 | M10 | 38 |
| 70/58  | 70  | 58 | M12 | 32 |
| 75/89  | 75  | 89 | M12 | 37 |
| 95/80  | 95  | 80 | M16 | 42 |
| 118/77 | 118 | 77 | M16 | 41 |

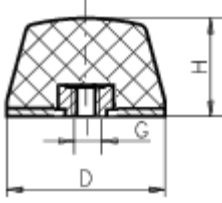




# KD

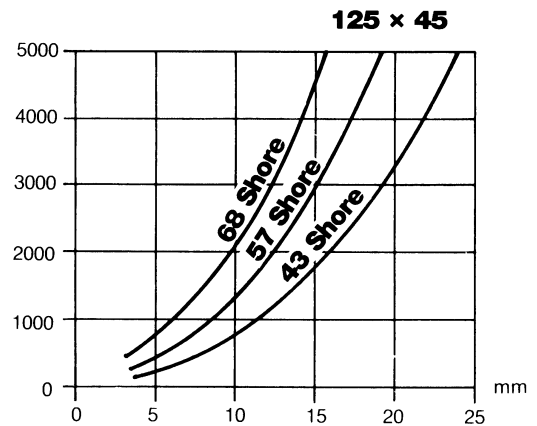
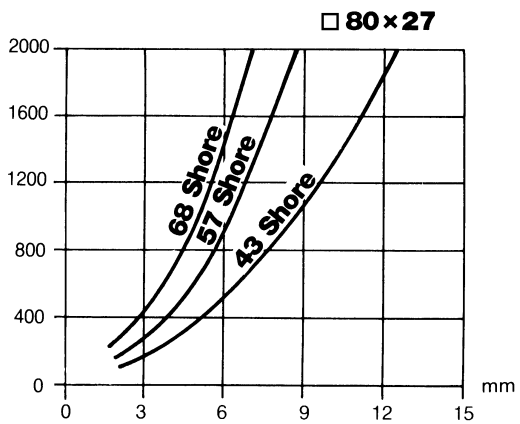
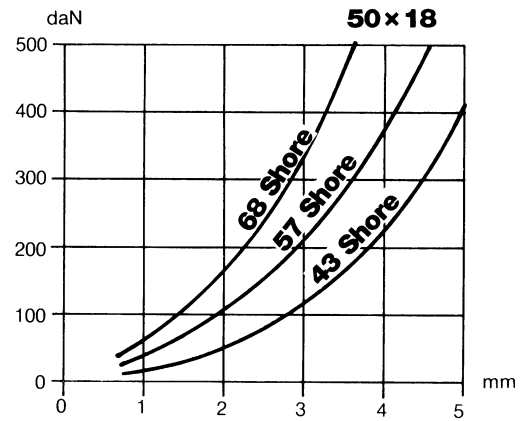
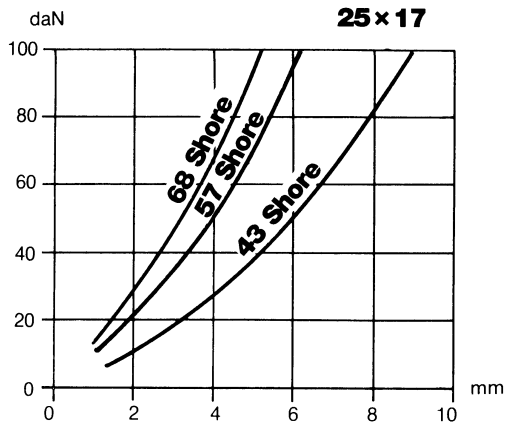


**KD-4**



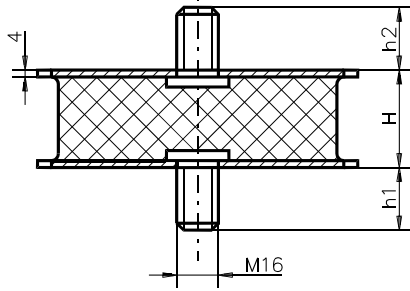
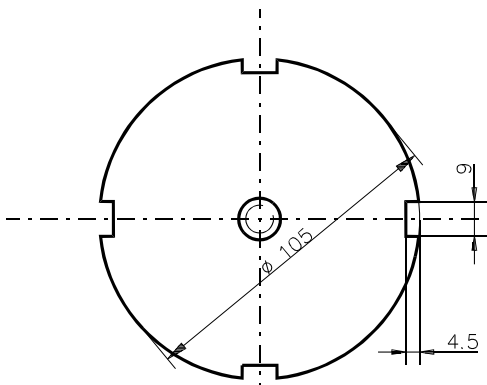
**KD-5**

| D/H          | D   | H   | G   | H  |
|--------------|-----|-----|-----|----|
| 12/12        | 12  | 12  | M4  | 10 |
| 14/6,3       | 14  | 6,3 | M4  | 4  |
| 25/12        | 25  | 12  | M6  | 18 |
| 25/14        | 25  | 14  | M4  | 10 |
| 25/17        | 25  | 17  | M6  | 18 |
| 35/40 Ballig | 35  | 40  | M8  | 23 |
| 45/21        | 45  | 21  | M8  | 46 |
| 50/18        | 50  | 18  | M10 | 28 |
| □50/20       | □50 | 20  | M10 | 28 |
| 50/50        | 50  | 50  | M10 | 28 |
| □80/27       | □80 | 27  | M12 | 37 |
| 125/45       | 125 | 45  | M16 | 45 |

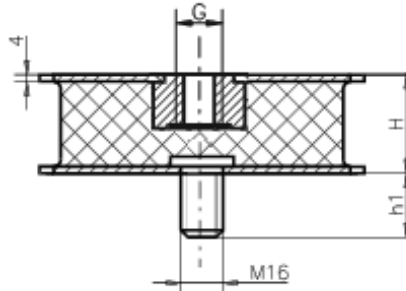


## KR

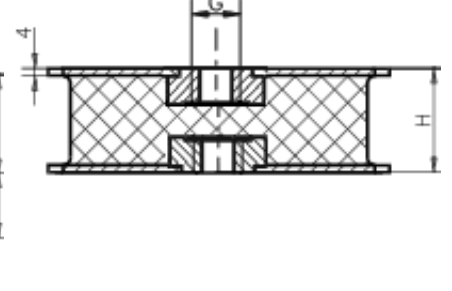
| Type | D   | H  | h1 | h2 |
|------|-----|----|----|----|
| KR-1 | 105 | 55 | 30 | 30 |
| KR-2 | 105 | 40 | 30 | 25 |



KR-A

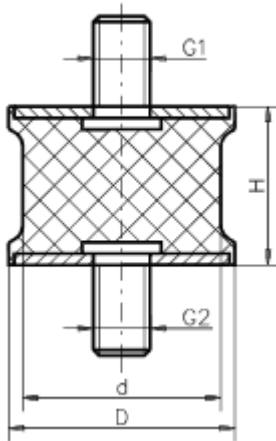


KR-B

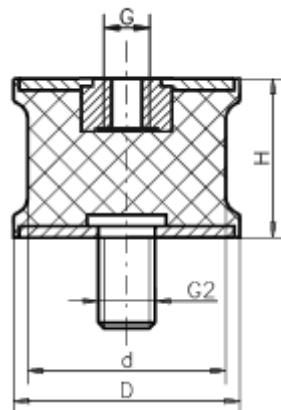


KR-C

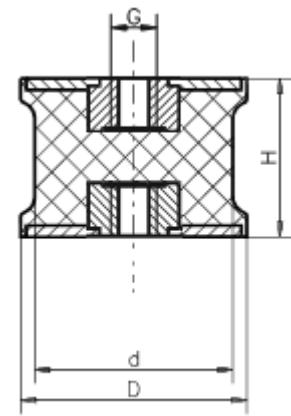
## SP-1



## SP-2



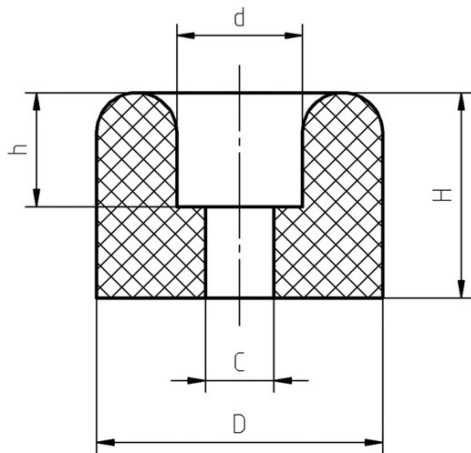
## SP-3



## SP

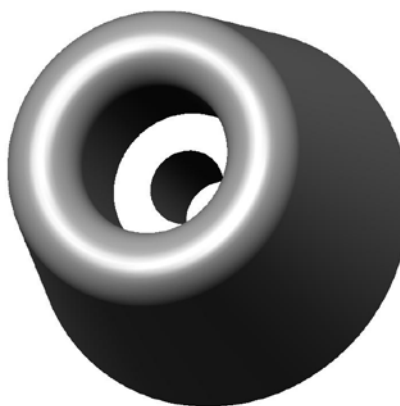
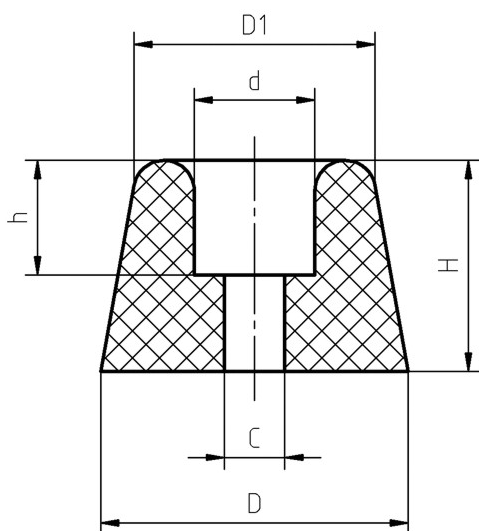
| D/d-H     | D   | d  | H  | G1     | G2     |
|-----------|-----|----|----|--------|--------|
| 25/22-22  | 26  | 22 | 22 | M8x10  | M8x18  |
| 40/35-28  | 40  | 35 | 28 | M10x16 | M10x20 |
| 46/40-25  | 46  | 40 | 25 | M10x28 | M10x28 |
| 75/70-40  | 75  | 70 | 40 | M12x37 | M12x37 |
| 100/95-55 | 100 | 95 | 55 | M16x41 | M16x41 |
| 100/95-75 | 100 | 95 | 75 | M16x45 | M16x45 |

## DBH



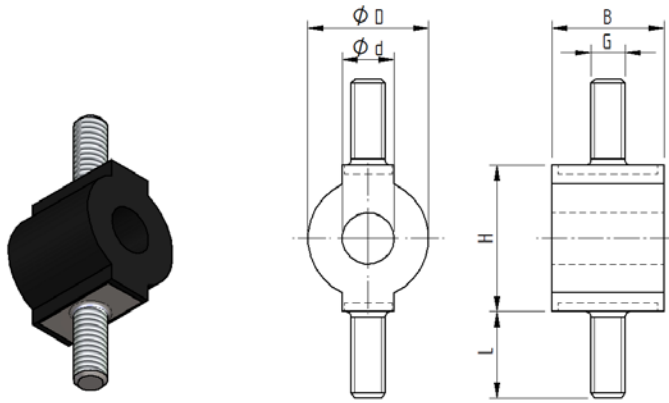
| D/H   | D  | H  | C | d  | h  |
|-------|----|----|---|----|----|
| 26/29 | 26 | 29 | 5 | 10 | 4  |
| 28/25 | 28 | 25 | 6 | 14 | 15 |
| 30/32 | 30 | 32 | 6 | 13 | 20 |
| 40/25 | 40 | 25 | 6 | 18 | 15 |
| 40/25 | 40 | 25 | 7 | 20 | 8  |
| 40/31 | 40 | 31 | 6 | 18 | 21 |
| 40/35 | 40 | 35 | 7 | 20 |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

## DBF



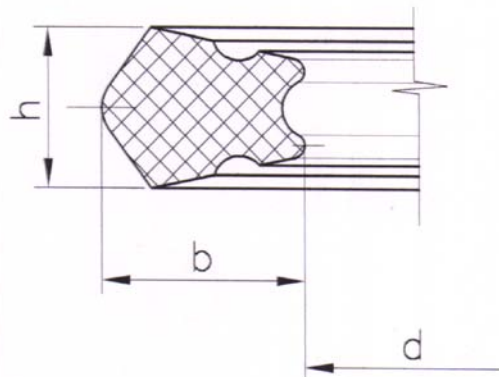
| D/H   | D  | H  | D1 | C   | d | h |
|-------|----|----|----|-----|---|---|
| 20/10 | 20 | 10 | 16 | 5   | 8 | 6 |
| 25/10 | 25 | 10 | 20 | 4,5 | 7 | 6 |

## O-PUFFER



| D/H       | D    | H    | B   | d   | G    | h    | R    |
|-----------|------|------|-----|-----|------|------|------|
| 12,5/12,5 | 12,5 | 12,5 | 9,5 | 5,6 | M4   | 10   | 5,25 |
| 17/14     | 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   |

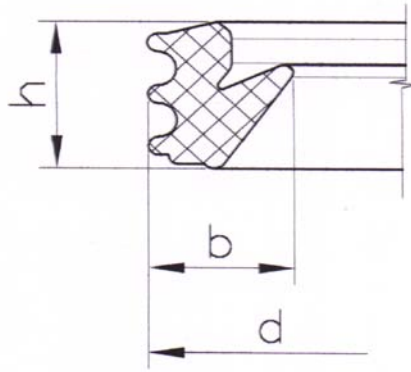
## UINICOR /KD-EXTRA/ RING



| Nominal<br>Dimension | $\phi d$  |             | h         |           | b         |           |
|----------------------|-----------|-------------|-----------|-----------|-----------|-----------|
|                      | Dimension | Tolerance   | Dimension | Tolerance | Dimension | Tolerance |
| 250                  | 245       | +1,5 / -2,5 | 8,9       | $\pm 0,5$ | 11,5      | $\pm 0,5$ |
| 315                  | 295       | +1,9 / -1,9 | 11,0      | $\pm 0,5$ | 13,2      | $\pm 0,5$ |
| 400                  | 388       | +1,5 / -3,5 | 13,8      | $\pm 0,7$ | 17,9      | $\pm 0,7$ |
| 500                  | 490       | +1,5 / -3,5 | 17,9      | $\pm 0,7$ | 24,2      | $\pm 1,1$ |

Hardness :  $52 \pm 5 \text{ Sh}^\circ$

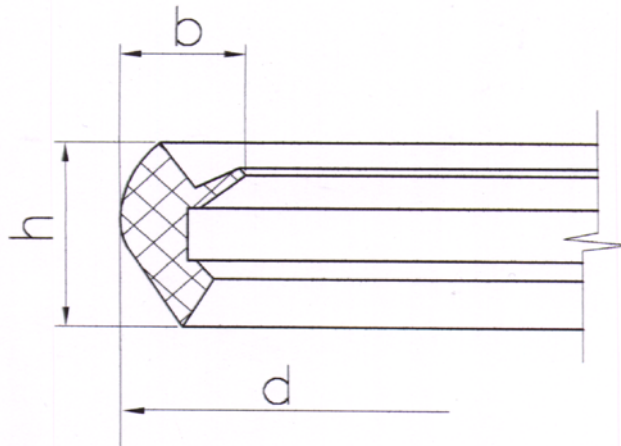
## LIP RING



| Nominal Dimension | Ød        |           | 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 :  $60 \pm 5 \text{ Sh}^\circ\text{A}$   
Tensile strength :  $> 10 \text{ Mpa}$

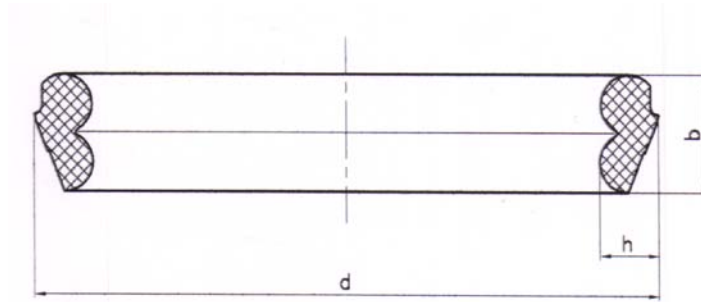
## KG RING



| 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 :  $52 \pm 5 \text{ Sh}^\circ\text{A}$

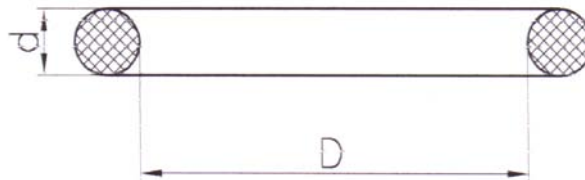
## KM RING



| Nominal Dimension | Ød        |             | 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     |
| 300               | 368       | +1,0 / 3,0  | 21        | ± 0,5     | 39        | ± 0,8     |

Hardness :  $52 \pm 5 \text{ Sh}^\circ\text{A}$

## O RING

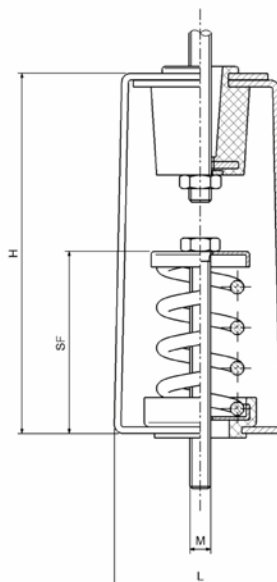
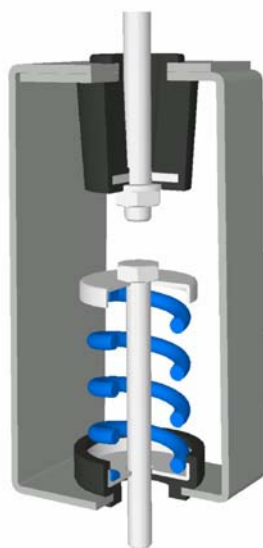


| Nominal Dimension | Ød        |            | b         |           |
|-------------------|-----------|------------|-----------|-----------|
|                   | Dimension | Tolerance  | Dimension | Tolerance |
| 31 x 6            | 31        | +1,0 / 0   | 6         | ± 0,4     |
| 39 x 6            | 39        | +1,0 / 0   | 6         | ± 0,4     |
| 49 x 6            | 49        | +1,0 / 0   | 6         | ± 0,4     |
| 62 x 6            | 62        | +1,1 0 / 0 | 6         | ± 0,4     |
| 95 x 4            | 95        | ± 1,3      | 4         | ± 0,4     |

Hardness :  $43 \pm 5 \text{ Sh}^\circ\text{A}$

Tensile strength : min 9,5 Mpa

# COMBINATION SPRING HANGER

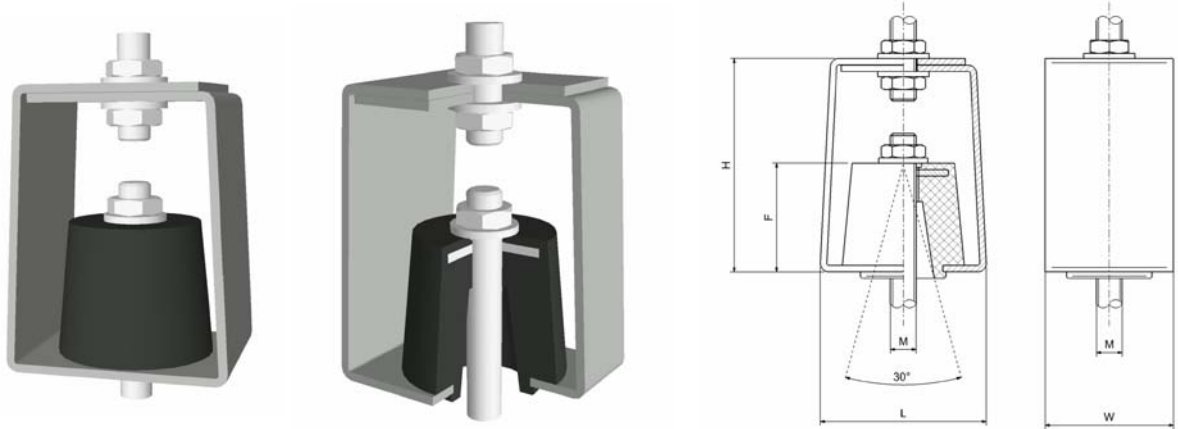


| 30 mm Rugóút |            |           |              |    |     |    |     |     |
|--------------|------------|-----------|--------------|----|-----|----|-----|-----|
| Modell       | Terh. (kg) | Rugó Szín | Méreték (mm) |    |     |    |     |     |
|              |            |           | L            | W  | SF  | RF | H   | M   |
| WCSH-A25     | 25         | ■         | 77           | 60 | 76  | 39 | 160 | M10 |
| WCSH-A50     | 50         | ■         |              |    |     |    |     |     |
| WCSH-A75     | 75         | ■         |              |    |     |    |     |     |
| WCSH-A100    | 100        | ■         | 77           | 60 | 84  | 39 | 160 | M10 |
| WCSH-A150    | 150        | ■         |              |    |     |    |     |     |
| WCSH-A200    | 200        | ■         |              |    |     |    |     |     |
| WCSH-B200    | 200        | ■         | 77           | 60 | 93  | 46 | 190 | M12 |
| WCSH-B250    | 250        | ■         |              |    |     |    |     |     |
| WCSH-B300    | 300        | ■         |              |    |     |    |     |     |
| WCSH-B400    | 400        | ■         | 94           | 80 | 110 | 73 | 250 | M16 |
| WCSH-C400    | 400        | ■         |              |    |     |    |     |     |
| WCSH-C500    | 500        | ■         |              |    |     |    |     |     |
| WCSH-C600    | 600        | ■         | 94           | 80 | 130 | 73 | 295 | M22 |
| WCSH-C700    | 700        | ■         |              |    |     |    |     |     |
| WCSH-C800    | 800        | ■         |              |    |     |    |     |     |
| WCSH-C1000   | 1000       | □         | 94           | 80 | 130 | 73 | 295 | M22 |
| WCSH-C1200   | 1200       | ■         |              |    |     |    |     |     |



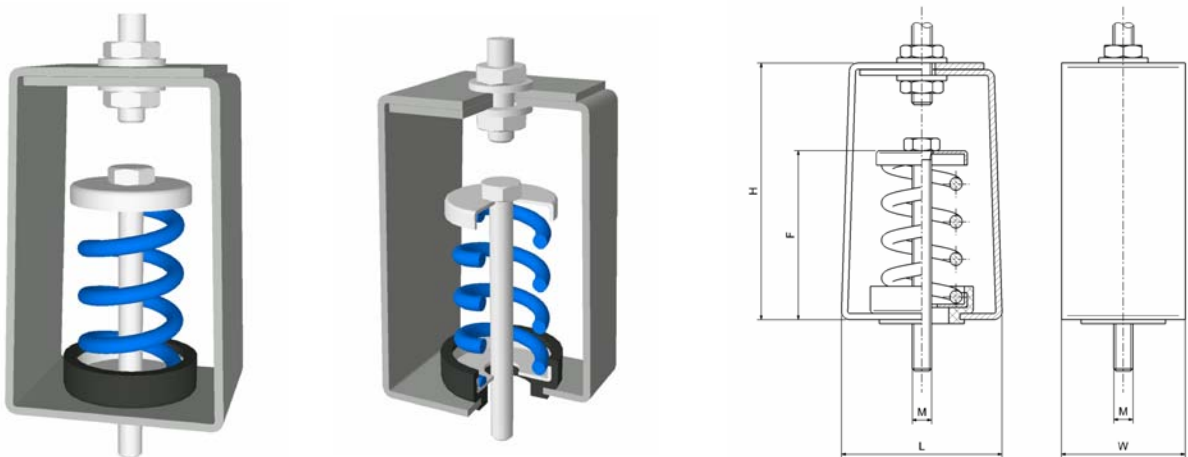
| 55 mm Rugóút |            |           |              |    |     |    |     |     |
|--------------|------------|-----------|--------------|----|-----|----|-----|-----|
| Modell       | Terh. (kg) | Rugó Szín | Méreték (mm) |    |     |    |     |     |
|              |            |           | L            | W  | SF  | RF | H   | M   |
| WCSH50-B25   | 25         | ■         | 77           | 60 | 118 | 46 | 215 | M12 |
| WCSH50-B50   | 50         | ■         |              |    |     |    |     |     |
| WCSH50-B75   | 75         | ■         |              |    |     |    |     |     |
| WCSH50-B100  | 100        | ■         | 94           | 80 | 127 | 73 | 270 | M16 |
| WCSH50-B150  | 150        | ■         |              |    |     |    |     |     |
| WCSH50-C200  | 200        | ■         |              |    |     |    |     |     |
| WCSH50-C250  | 250        | ■         | 94           | 80 | 135 | 73 | 270 | M16 |
| WCSH50-C300  | 300        | ■         |              |    |     |    |     |     |
| WCSH50-C400  | 400        | ■         |              |    |     |    |     |     |
| WCSH50-C500  | 500        | ■ / ■     | 107          | 95 | 163 | 73 | 315 | M20 |
| WCSH50-C600  | 600        | ■ / ■     |              |    |     |    |     |     |
| WCSH50-G700  | 700        | ■         |              |    |     |    |     |     |
| WCSH50-G800  | 800        | ■         | 107          | 95 | 163 | 73 | 335 | M24 |
| WCSH50-G1000 | 1000       | ■         |              |    |     |    |     |     |
| WCSH50-G1200 | 1200       | ■ / ■     |              |    |     |    |     |     |
| WCSH50-G1400 | 1400       | ■ / ■     | 10           | 95 | 163 | 73 | 335 | M24 |

## NEOPRENE HANGER



| Modell | Terh. (kg) | Rugóút | Rugó Szín | Méretek (mm) |    |     |    |     |
|--------|------------|--------|-----------|--------------|----|-----|----|-----|
|        |            |        |           | L            | W  | F   | H  | M   |
| WSH-A1 | 18         | 8 mm   | ■         | 58           | 05 | 72  | 38 | M10 |
| WSH-A2 | 35         |        | ■         |              |    |     |    |     |
| WSH-A3 | 50         |        | ■         |              |    |     |    |     |
| WSH-B1 | 100        | 10 mm  | ■         | 77           | 60 | 100 | 48 | M12 |
| WSH-B2 | 140        |        | ■         |              |    |     |    |     |
| WSH-B3 | 200        |        | ■         |              |    |     |    |     |
| WSH-C1 | 250        | 10 mm  | ■         | 94           | 80 | 145 | 73 | M16 |
| WSH-C2 | 350        |        | ■         |              |    |     |    |     |
| WSH-C3 | 500        |        | ■         |              |    |     |    |     |
| WSH-D1 | 600        | 13 mm  | ■         | 107          | 95 | 180 | 90 | M20 |
| WSH-D2 | 750        |        | ■         |              |    |     |    |     |
| WSH-D3 | 900        |        | ■         |              |    |     |    |     |

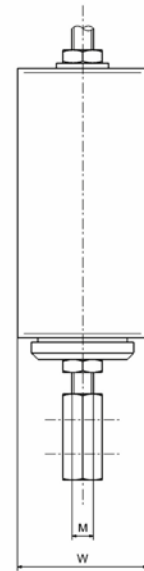
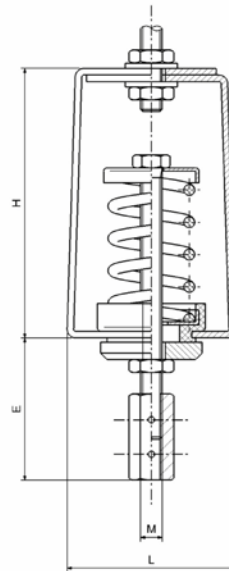
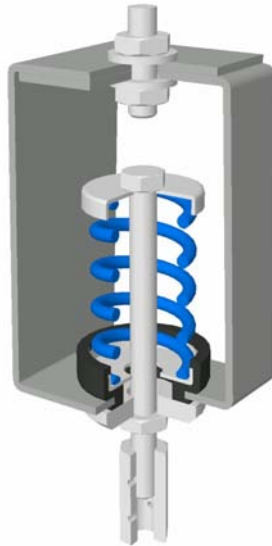
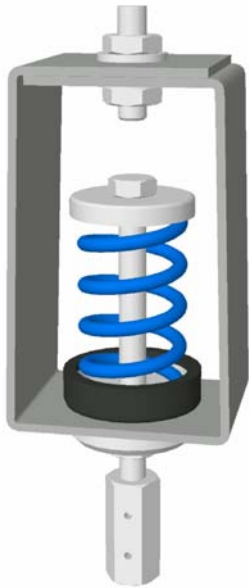
## SPRING HANGER – “L” SERIES



| Modell   | Rugóút | Terh. (kg) | Rugó Szín | Méretek (mm) |    |    |     |     |
|----------|--------|------------|-----------|--------------|----|----|-----|-----|
|          |        |            |           | L            | W  | F  | H   | M   |
| WSHL-M6  | 13     | 6          | ■         | 58           | 50 | 44 | 72  | M12 |
| WSHL-M9  |        | 9          | ■         |              |    |    |     |     |
| WSHL-M15 |        | 15         | ■         |              |    |    |     |     |
| WSHL-M21 |        | 21         | ■         |              |    |    |     |     |
| WSHL-M28 |        | 28         | ■         |              |    |    |     |     |
| WSHL-P6  | 25     | 6          | ■         | 58           | 50 | 64 | 100 | M12 |
| WSHL-P9  |        | 9          | ■         |              |    |    |     |     |
| WSHL-P15 |        | 15         | ■         |              |    |    |     |     |
| WSHL-P21 |        | 21         | ■         |              |    |    |     |     |
| WSHL-P28 |        | 28         | ■         |              |    |    |     |     |
| WSHL-P35 |        | 35         | ■         |              |    |    |     |     |
| WSHL-P50 |        | 50         | ■         |              |    |    |     |     |

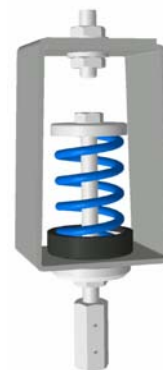


# PRECOMPRESSED SPRING HANGER

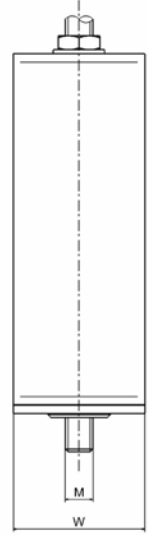
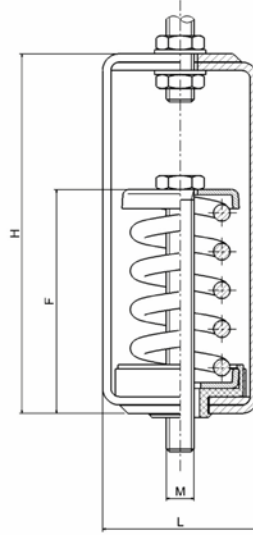
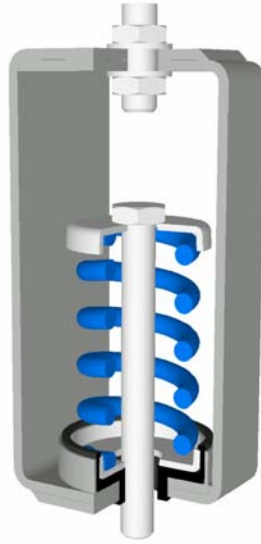
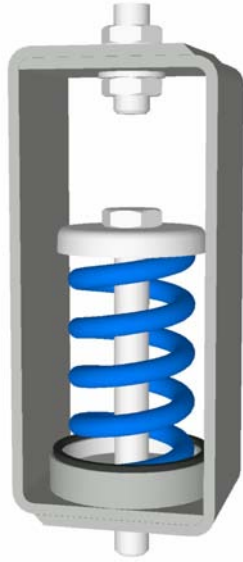


| 25 mm Rugóút |            |           |            |    |     |     |     |
|--------------|------------|-----------|------------|----|-----|-----|-----|
| Modell       | Terh. (kg) | Rugó Szín | Méret (mm) |    |     |     |     |
|              |            |           | L          | W  | E   | H   | M   |
| PCSH-A25     | 25         | ■         | 77         | 60 | 68  | 120 | M10 |
| PCSH-A50     | 50         | ■         |            |    |     |     |     |
| PCSH-A75     | 75         | ■         |            |    |     |     |     |
| PCSH-A100    | 100        | ■         |            |    |     |     |     |
| PCSH-A150    | 150        | ■         | 77         | 60 | 75  | 120 | M10 |
| PCSH-A200    | 200        | ■         |            |    |     |     |     |
| PCSH-B200    | 200        | ■         |            |    |     |     |     |
| PCSH-B250    | 250        | ■         |            |    |     |     |     |
| PCSH-B300    | 300        | ■         | 77         | 60 | 85  | 145 | M12 |
| PCSH-B400    | 400        | ■         |            |    |     |     |     |
| PCSH-C400    | 400        | ■         |            |    |     |     |     |
| PCSH-C500    | 500        | ■         |            |    |     |     |     |
| PCSH-C600    | 600        | ■         | 94         | 80 | 115 | 180 | M16 |
| PCSH-C700    | 700        | ■         |            |    |     |     |     |
| PCSH-C800    | 800        | ■         |            |    |     |     |     |
| PCSH-C1000   | 1000       | □         |            |    |     |     |     |
| PCSH-C1200   | 1200       | ■         | 94         | 80 | 145 | 220 | M22 |
| PCSH-2C1400  | 1400       | ■         |            |    |     |     |     |
| PCSH-2C1600  | 1600       | ■         |            |    |     |     |     |
| PCSH-2C2000  | 2000       | □         |            |    |     |     |     |
| PCSH-2C2400  | 2400       | ■         | 235        | 75 | 175 | 325 | M30 |
| PCSH-2C2800  | 2800       | ■ / ■     |            |    |     |     |     |
| PCSH-2C3200  | 3200       | ■ / □     |            |    |     |     |     |

| 50 mm Rugóút  |            |           |            |     |     |     |     |
|---------------|------------|-----------|------------|-----|-----|-----|-----|
| Modell        | Terh. (kg) | Rugó Szín | Méret (mm) |     |     |     |     |
|               |            |           | L          | W   | E   | H   | M   |
| PCSH50-B25    | 25         | ■         | 77         | 60  | 100 | 170 | M12 |
| PCSH50-B50    | 50         | ■         |            |     |     |     |     |
| PCSH50-B75    | 75         | ■         |            |     |     |     |     |
| PCSH50-B100   | 100        | ■         |            |     |     |     |     |
| PCSH50-B150   | 150        | ■         | 94         | 80  | 115 | 200 | M16 |
| PCSH50-C200   | 200        | ■         |            |     |     |     |     |
| PCSH50-C250   | 250        | ■         |            |     |     |     |     |
| PCSH50-C300   | 300        | ■         |            |     |     |     |     |
| PCSH50-C400   | 400        | ■         | 94         | 80  | 145 | 260 | M24 |
| PCSH50-C500   | 500        | ■ / ■     |            |     |     |     |     |
| PCSH50-C600   | 600        | ■ / ■     |            |     |     |     |     |
| PCSH50-G700   | 700        | ■         |            |     |     |     |     |
| PCSH50-G800   | 800        | ■         | 107        | 95  | 130 | 240 | M20 |
| PCSH50-G1000  | 1000       | ■         |            |     |     |     |     |
| PCSH50-G1200  | 1200       | ■ / ■     |            |     |     |     |     |
| PCSH50-G1400  | 1400       | ■ / ■     |            |     |     |     |     |
| PCSH50-2G1600 | 1600       | ■         | 260        | 100 | 175 | 360 | M30 |
| PCSH50-2G2000 | 2000       | ■         |            |     |     |     |     |
| PCSH50-2G2400 | 2400       | ■ / ■     |            |     |     |     |     |
| PCSH50-2G2800 | 2800       | ■ / ■     |            |     |     |     |     |



# SPRING HANGER

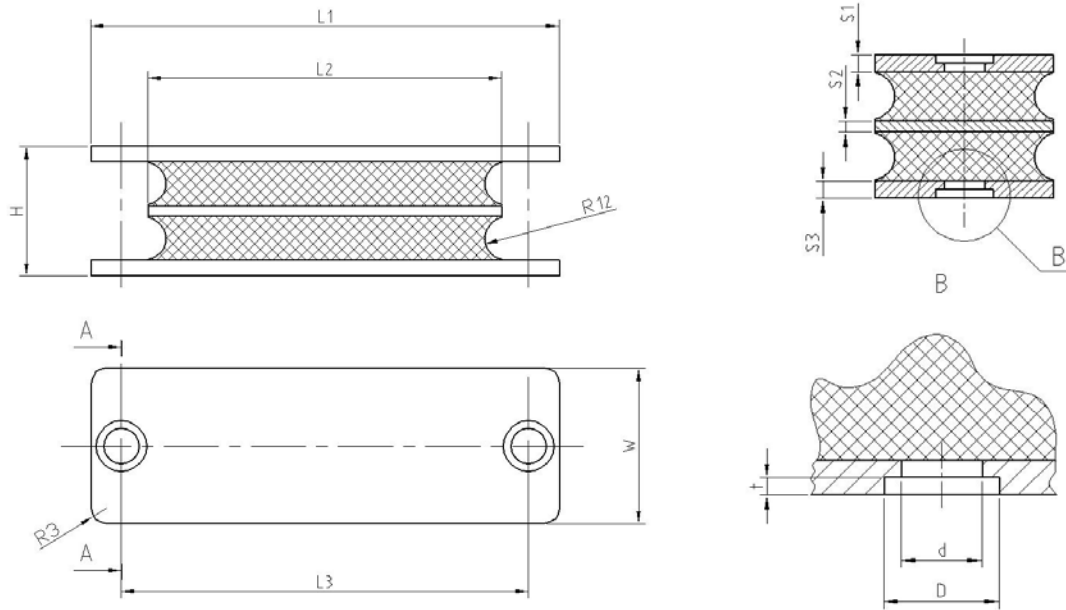


| 25 mm Rugóút |            |           |              |    |     |     |     |
|--------------|------------|-----------|--------------|----|-----|-----|-----|
| Modell       | Terh. (kg) | Rugó Szín | Méreték (mm) |    |     |     |     |
|              |            |           | L            | W  | F   | H   | M   |
| WSH-A25      | 25         | ■         | 77           | 60 | 76  | 120 | M10 |
| WSH-A50      | 50         | ■         |              |    |     |     |     |
| WSH-A75      | 75         | ■         |              |    |     |     |     |
| WSH-A100     | 100        | ■         | 77           | 60 | 84  | 120 | M10 |
| WSH-A150     | 150        | ■         |              |    |     |     |     |
| WSH-A200     | 200        | ■         |              |    |     |     |     |
| WSH-B200     | 200        | ■         | 77           | 60 | 93  | 145 | M12 |
| WSH-B250     | 250        | ■         |              |    |     |     |     |
| WSH-B300     | 300        | ■         |              |    |     |     |     |
| WSH-B400     | 400        | ■         | 94           | 80 | 110 | 180 | M16 |
| WSH-C400     | 400        | ■         |              |    |     |     |     |
| WSH-C500     | 500        | ■         |              |    |     |     |     |
| WSH-C600     | 600        | ■         | 94           | 80 | 130 | 220 | M22 |
| WSH-C700     | 700        | ■         |              |    |     |     |     |
| WSH-C800     | 800        | ■         |              |    |     |     |     |
| WSH-C1000    | 1000       | □         | 235          | 75 | 165 | 325 | M30 |
| WSH-2C1400   | 1400       | ■         |              |    |     |     |     |
| WSH2C1600    | 1600       | ■         |              |    |     |     |     |
| WSH-2C2000   | 2000       | □         | 235          | 75 | 165 | 350 | M36 |
| WSH-2C2400   | 2400       | ■         |              |    |     |     |     |
| WSH-2C2800   | 2800       | ■ / ■     |              |    |     |     |     |
| WSH-2C3200   | 3200       | ■ / □     |              |    |     |     |     |

| 50 mm Rugóút |            |           |              |     |     |     |     |  |  |  |
|--------------|------------|-----------|--------------|-----|-----|-----|-----|--|--|--|
| Modell       | Terh. (kg) | Rugó Szín | Méreték (mm) |     |     |     |     |  |  |  |
|              |            |           | L            | W   | F   | H   | M   |  |  |  |
| WSH-B25      | 25         | ■         | 77           | 60  | 118 | 170 | M12 |  |  |  |
| WSH-B50      | 50         | ■         |              |     |     |     |     |  |  |  |
| WSH-B75      | 75         | ■         |              |     |     |     |     |  |  |  |
| WSH-B100     | 100        | ■         | 94           | 80  | 127 | 200 | M16 |  |  |  |
| WSH-B150     | 150        | ■         |              |     |     |     |     |  |  |  |
| WSH-C200     | 200        | ■         |              |     |     |     |     |  |  |  |
| WSH-C250     | 250        | ■         | 94           | 80  | 135 | 200 | M16 |  |  |  |
| WSH-C300     | 300        | ■         |              |     |     |     |     |  |  |  |
| WSH-C400     | 400        | ■         |              |     |     |     |     |  |  |  |
| WSH-C500     | 500        | ■ / ■     | 107          | 95  | 163 | 240 | M20 |  |  |  |
| WSH-C600     | 600        | ■ / ■     |              |     |     |     |     |  |  |  |
| WSH-G700     | 700        | ■         |              |     |     |     |     |  |  |  |
| WSH-G800     | 800        | ■         | 260          | 100 | 200 | 360 | M30 |  |  |  |
| WSH-G1000    | 1000       | ■         |              |     |     |     |     |  |  |  |
| WSH-G1200    | 1200       | ■ / ■     |              |     |     |     |     |  |  |  |
| WSH-G1400    | 1400       | ■ / ■     | 260          | 100 | 200 | 385 | M36 |  |  |  |
| WSH-2G1600   | 1600       | ■         |              |     |     |     |     |  |  |  |
| WSH-2G2000   | 2000       | ■         |              |     |     |     |     |  |  |  |
| WSH-2G2400   | 2400       | ■ / ■     |              |     |     |     |     |  |  |  |
| WSH-2G2800   | 2800       | ■ / ■     |              |     |     |     |     |  |  |  |

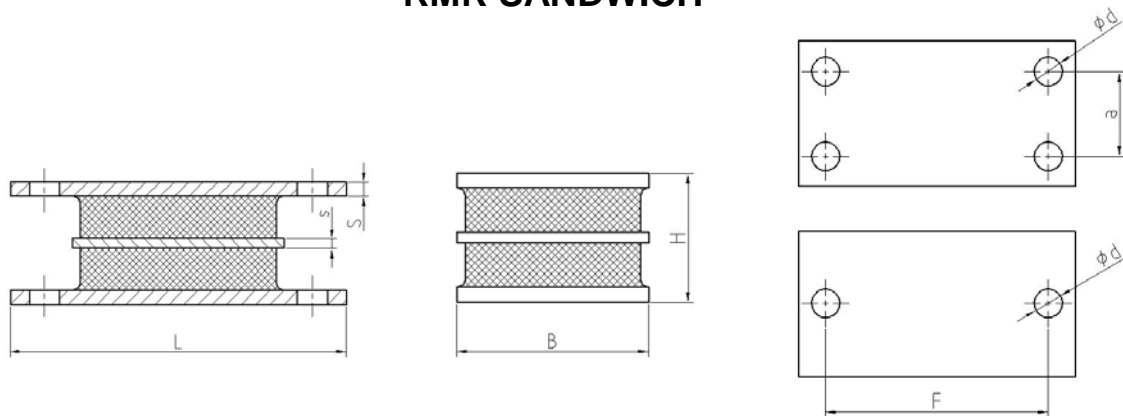


## GMR SANDWICH



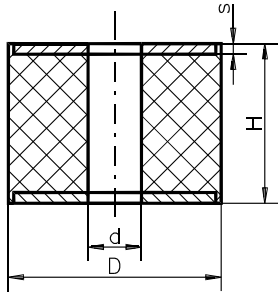
| Type           | L1  | L2   | L3  | H  | D  | d  | w  |
|----------------|-----|------|-----|----|----|----|----|
| <b>GMR S-1</b> | 108 | 63,5 | 89  | 43 | 20 | 13 | 57 |
| <b>GMR S-2</b> | 168 | 127  | 146 | 43 | 20 | 13 | 57 |

## RMR SANDWICH



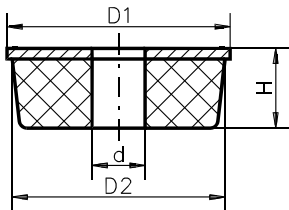
| Type         | H  | B   | L   | a  | F   | d  | S | S |
|--------------|----|-----|-----|----|-----|----|---|---|
| <b>R-100</b> | 43 | 57  | 108 | -  | 89  | 11 | 5 | 3 |
| <b>R-600</b> | 43 | 108 | 251 | 51 | 210 | 13 | 5 | 3 |

## GH



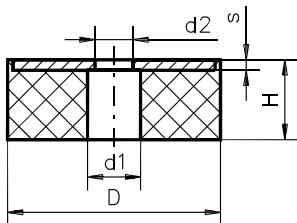
| D/d-H      | D   | d  | H   | s |
|------------|-----|----|-----|---|
| 15/6-25    | 15  | 6  | 25  | 2 |
| 20/6-25    | 20  | 6  | 25  | 2 |
| 40/13-20   | 40  | 13 | 20  | 3 |
| 40/13-30   | 40  | 13 | 30  | 3 |
| 40/13-40   | 40  | 13 | 40  | 3 |
| 50/17-20   | 50  | 13 | 20  | 3 |
| 50/17-40   | 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 |

## RB



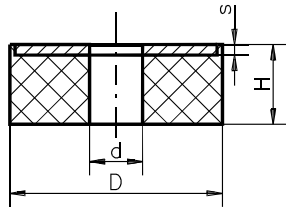
| Type | D1  | D2  | d  | H  |
|------|-----|-----|----|----|
| 1    | 42  | 40  | 18 | 23 |
| 2    | 62  | 60  | 21 | 33 |
| 3    | 72  | 70  | 21 | 33 |
| 4    | 82  | 80  | 25 | 40 |
| 5    | 102 | 100 | 32 | 54 |
| 6    | 122 | 120 | 38 | 46 |

## GK

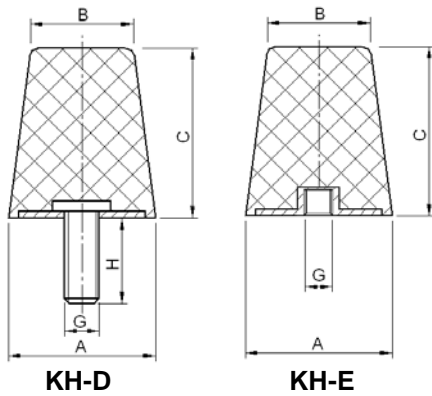


| D/H    | D   | H  | d1 | d2 | s |
|--------|-----|----|----|----|---|
| 30/16  | 30  | 16 | 16 | 9  | 3 |
| 40/16  | 40  | 16 | 16 | 9  | 3 |
| 40/20  | 40  | 20 | 17 | 9  | 3 |
| 50/16  | 50  | 16 | 20 | 11 | 3 |
| 50/20  | 50  | 20 | 22 | 11 | 3 |
| 60/18  | 60  | 18 | 25 | 25 | 3 |
| 60/20  | 60  | 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



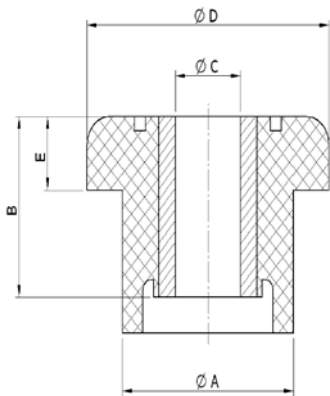
| D/d-H     | D   | d  | H  | s |
|-----------|-----|----|----|---|
| 40/10-10  | 40  | 10 | 10 | 2 |
| 62/14-6   | 62  | 14 | 6  | 3 |
| 80/21-30  | 80  | 21 | 30 | 2 |
| 100/21-30 | 100 | 21 | 30 | 4 |
| 100/21-40 | 100 | 21 | 40 | 4 |
| 100/25-40 | 100 | 25 | 40 | 4 |
| 100/56-19 | 100 | 56 | 19 |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



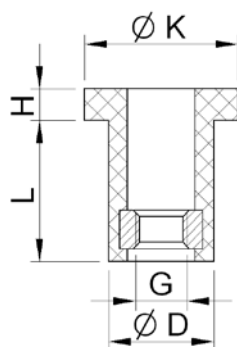
## KH

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

## T-BLOCK



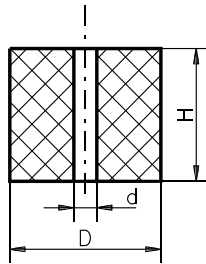
| Type | A    | B    | C  | D    | E    |
|------|------|------|----|------|------|
| TB-1 | 20,6 | 17,5 | 10 | 27,7 | 5,6  |
| TB-2 | 31,5 | 25,4 | 13 | 44,5 | 10,4 |
| TB-3 | 34,3 | 35   | 13 | 50,8 | 13,5 |
| TB-4 | 41,1 | 44,5 | 16 | 63,5 | 15,7 |
| TB-5 | 38   | 23   | 16 | 64   | 16   |
| TB-6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



## T-FLEX

| Type | D    | K  | L    | H   | G  |
|------|------|----|------|-----|----|
| TF-1 | 7,2  | 9  | 9    | 2,5 | M3 |
| TF-2 | 9,3  | 12 | 11,5 | 3   | M4 |
| TF-3 | 10,2 | 15 | 14,5 | 3,5 | M5 |
| TF-4 | 12,7 | 18 | 17   | 4   | M6 |
| TF-5 | 16,5 | 24 | 22   | 5   | M8 |

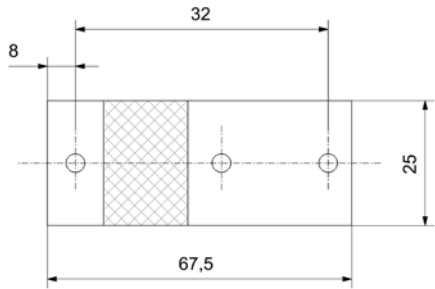
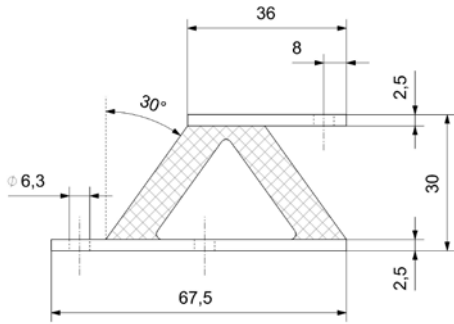
GP



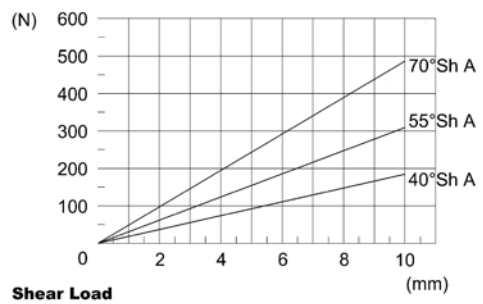
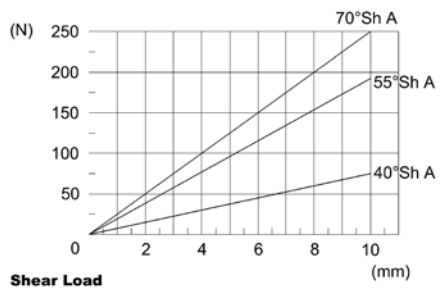
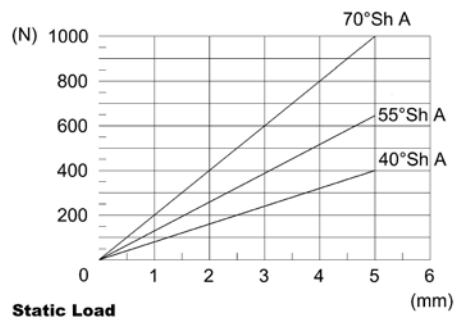
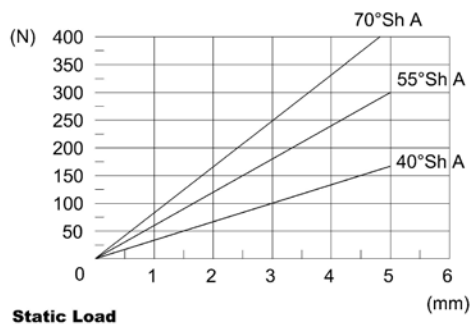
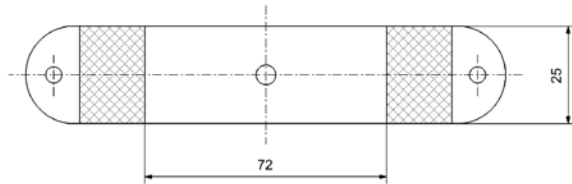
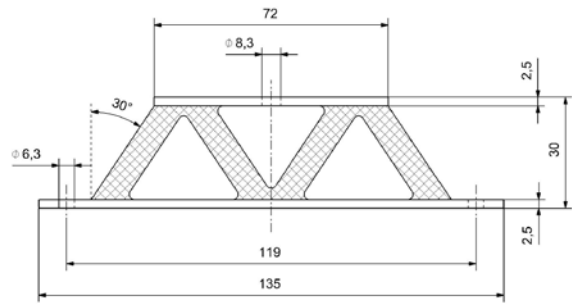
| D/d-H      | D    | d    | H    |
|------------|------|------|------|
| 8/3-3      | 8,5  | 3,2  | 3,5  |
| 13/6,5-12  | 13   | 6,5  | 12   |
| 17,5/9-16  | 17,5 | 9    | 16   |
| 19/13-19   | 19   | 13   | 19   |
| 20/8,5-15  | 20   | 8,5  | 15   |
| 25/8-25    | 25   | 8,5  | 25   |
| 25/10,5-15 | 25   | 10,5 | 0,25 |
| 25/10,5-25 | 25   | 10,5 | 15   |
| 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 |

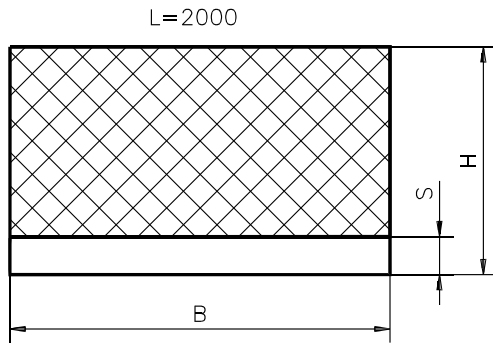
## V-Element



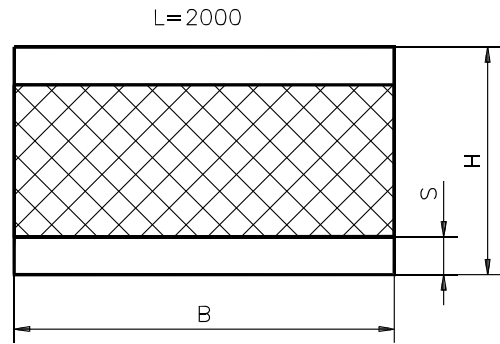
## W-Element



### 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  | ○ | ●  | ○  |
| 70/65   | 70  | 60  | ○ | ●  | ○  |
| 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 | ○ | ●  | ○  |

Rails can be delivered with length and metal thickness to your choice.



# LOAD DATA

## GS-M2

| B  | H  | L    | s  | f [mm] | Fv [daN] |       |        |
|----|----|------|----|--------|----------|-------|--------|
|    |    |      |    |        | 43Sh     | 57Sh  | 68Sh   |
| 25 | 25 | 2000 | 5  | 0,75   | 16       | 35    | 74     |
|    |    |      |    | 1,5    | 34       | 72    | 154    |
|    |    |      |    | 2,25   | 53       | 113   | 241    |
| 25 | 30 | 200  | 5  | 1      | 14       | 30    | 66     |
|    |    |      |    | 2      | 28       | 63    | 136    |
|    |    |      |    | 3      | 44       | 98    | 212    |
| 30 | 30 | 2000 | 5  | 1      | 22       | 47    | 101    |
|    |    |      |    | 2      | 45       | 98    | 210    |
|    |    |      |    | 3      | 71       | 153   | 328    |
| 40 | 20 | 2000 | 5  | 0,5    | 109      | 207   | 415    |
|    |    |      |    | 1      | 234      | 441   | 885    |
|    |    |      |    | 1,5    | 378      | 710   | 1 421  |
| 50 | 40 | 2000 | 5  | 1,5    | 64       | 138   | 295    |
|    |    |      |    | 3      | 134      | 287   | 614    |
|    |    |      |    | 4,5    | 312      | 451   | 962    |
| 50 | 50 | 2000 | 5  | 2      | 54       | 121   | 262    |
|    |    |      |    | 4      | 113      | 250   | 543    |
|    |    |      |    | 6      | 177      | 390   | 846    |
| 60 | 30 | 2000 | 10 | 0,5    | 479      | 867   | 1 705  |
|    |    |      |    | 1      | 1 032    | 1 866 | 3 665  |
|    |    |      |    | 1,5    | 1 677    | 3 027 | 5 940  |
| 60 | 60 | 2000 | 10 | 2      | 86       | 188   | 405    |
|    |    |      |    | 4      | 180      | 390   | 840    |
|    |    |      |    | 6      | 283      | 612   | 1 315  |
| 60 | 80 | 2000 | 10 | 3      | 72       | 163   | 356    |
|    |    |      |    | 6      | 148      | 336   | 735    |
|    |    |      |    | 9      | 230      | 520   | 1 140  |
| 70 | 30 | 2000 | 10 | 0,5    | 857      | 1 536 | 3 005  |
|    |    |      |    | 1      | 1 850    | 3 313 | 6 470  |
|    |    |      |    | 1,5    | 3 015    | 5 390 | 10 510 |
| 70 | 50 | 2000 | 10 | 1,5    | 168      | 345   | 717    |
|    |    |      |    | 3      | 355      | 720   | 1 510  |
|    |    |      |    | 4,5    | 565      | 1 145 | 2 385  |

| B   | H   | L    | s  | f [mm] | Fv [daN] |        |        |
|-----|-----|------|----|--------|----------|--------|--------|
|     |     |      |    |        | 43Sh     | 57Sh   | 68Sh   |
| 70  | 60  | 2000 | 10 | 2      | 130      | 278    | 592    |
|     |     |      |    | 4      | 273      | 580    | 1 235  |
|     |     |      |    | 6      | 430      | 912    | 1 938  |
| 80  | 45  | 2000 | 10 | 1,25   | 318      | 619    | 1 265  |
|     |     |      |    | 2,5    | 678      | 1 315  | 2 680  |
|     |     |      |    | 3,75   | 1 090    | 2 105  | 4 280  |
| 80  | 60  | 2000 | 10 | 2      | 190      | 400    | 838    |
|     |     |      |    | 4      | 400      | 830    | 1 750  |
|     |     |      |    | 6      | 630      | 1 310  | 2 760  |
| 80  | 80  | 2000 | 10 | 3      | 143      | 317    | 685    |
|     |     |      |    | 6      | 298      | 628    | 1 420  |
|     |     |      |    | 9      | 468      | 1 027  | 2 220  |
| 100 | 60  | 2000 | 10 | 2      | 368      | 745    | 1 550  |
|     |     |      |    | 4      | 780      | 1 570  | 3 262  |
|     |     |      |    | 6      | 1 245    | 2 500  | 5 170  |
| 100 | 80  | 2000 | 10 | 3      | 256      | 550    | 1 180  |
|     |     |      |    | 6      | 536      | 1 150  | 2 455  |
|     |     |      |    | 9      | 845      | 1 800  | 3 845  |
| 120 | 45  | 2000 | 15 | 0,75   | 3 215    | 5 725  | 11 140 |
|     |     |      |    | 1,5    | 6 950    | 12 360 | 24 040 |
|     |     |      |    | 2,25   | 11 335   | 20 120 | 39 110 |
| 120 | 60  | 2000 | 15 | 1,5    | 985      | 1 860  | 3 735  |
|     |     |      |    | 3      | 2 110    | 3 970  | 7 962  |
|     |     |      |    | 4,5    | 3 405    | 6 380  | 12 790 |
| 120 | 80  | 2000 | 15 | 2,5    | 507      | 1 033  | 2 156  |
|     |     |      |    | 5      | 1 075    | 2 175  | 4 535  |
|     |     |      |    | 7,5    | 1 710    | 3 450  | 7 175  |
| 150 | 60  | 2000 | 15 | 1,5    | 2 190    | 4 035  | 8 005  |
|     |     |      |    | 3      | 4 710    | 8 655  | 17 150 |
|     |     |      |    | 4,5    | 7 640    | 14 000 | 27 700 |
| 200 | 100 | 2000 | 15 | 3,5    | 1 720    | 3 400  | 7 020  |
|     |     |      |    | 7      | 3 655    | 7 210  | 14 825 |
|     |     |      |    | 10,5   | 5 855    | 11 500 | 23 590 |



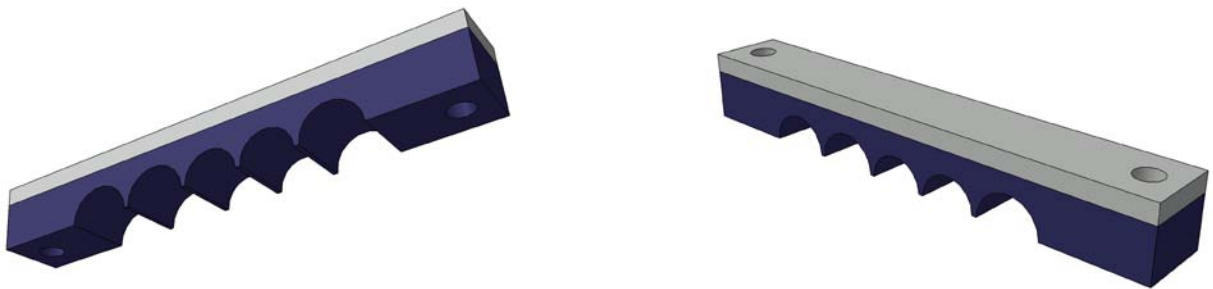
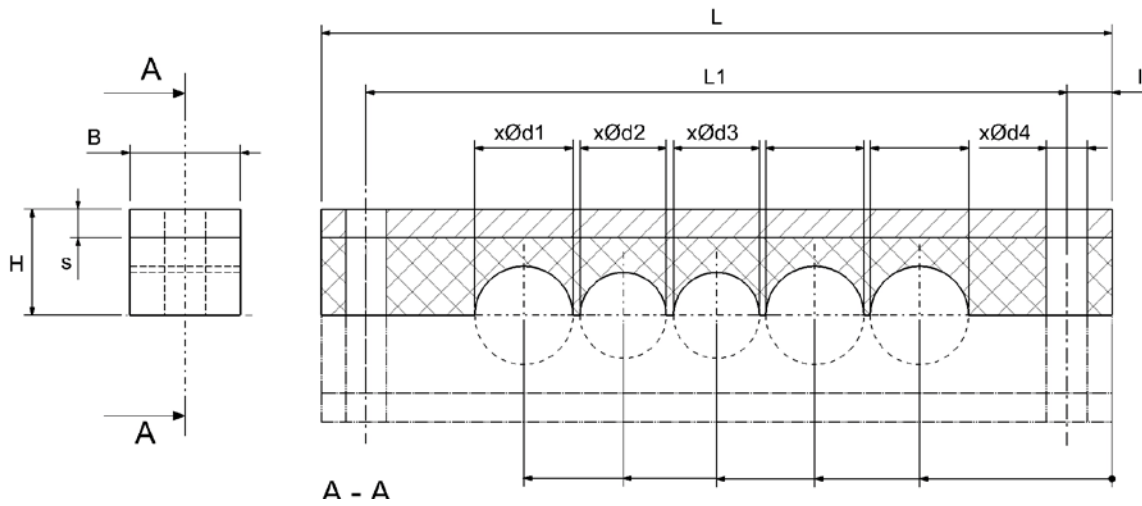
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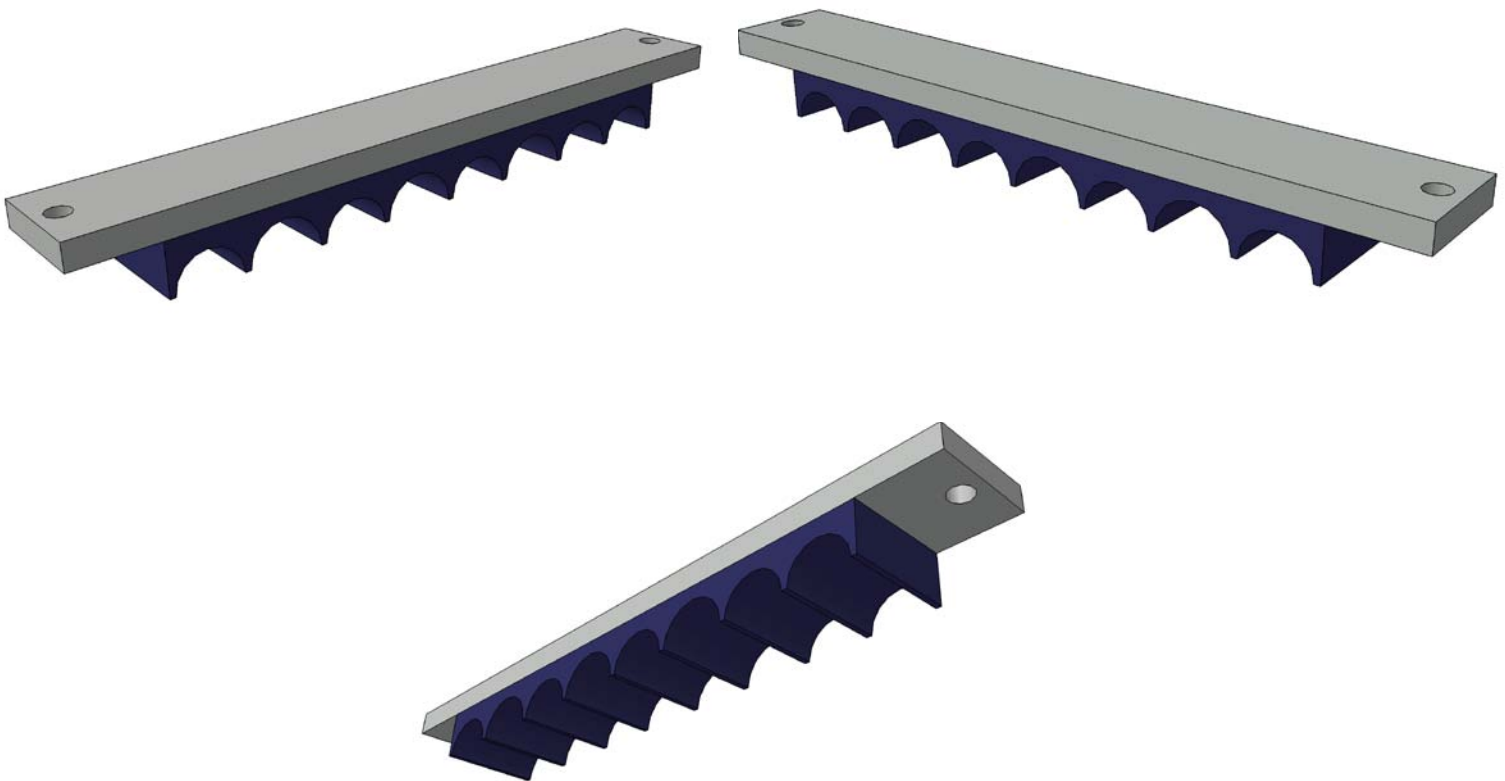
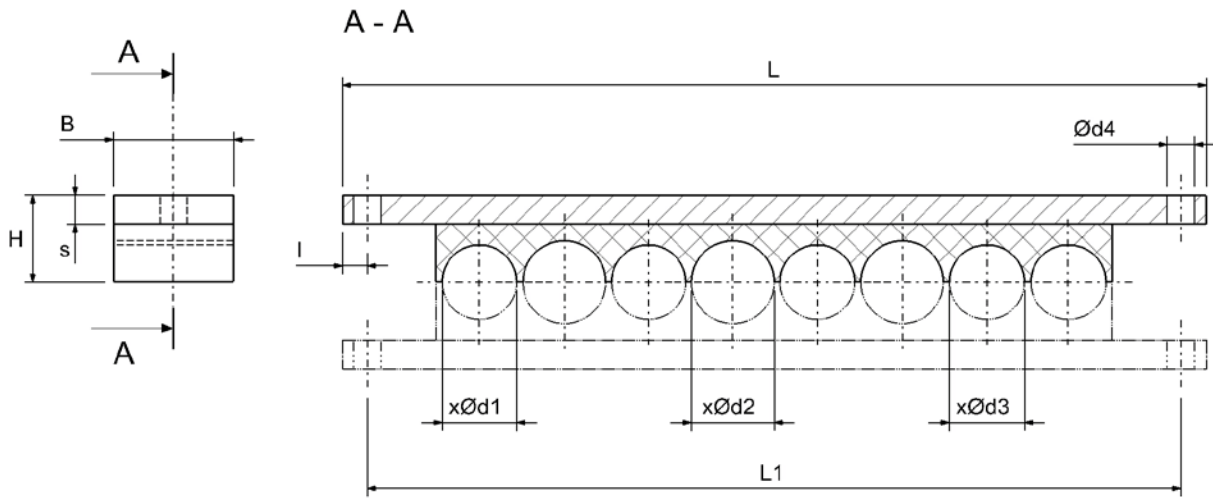
E-mail:  
meta-vulk@mail.datanet.hu

# PLT



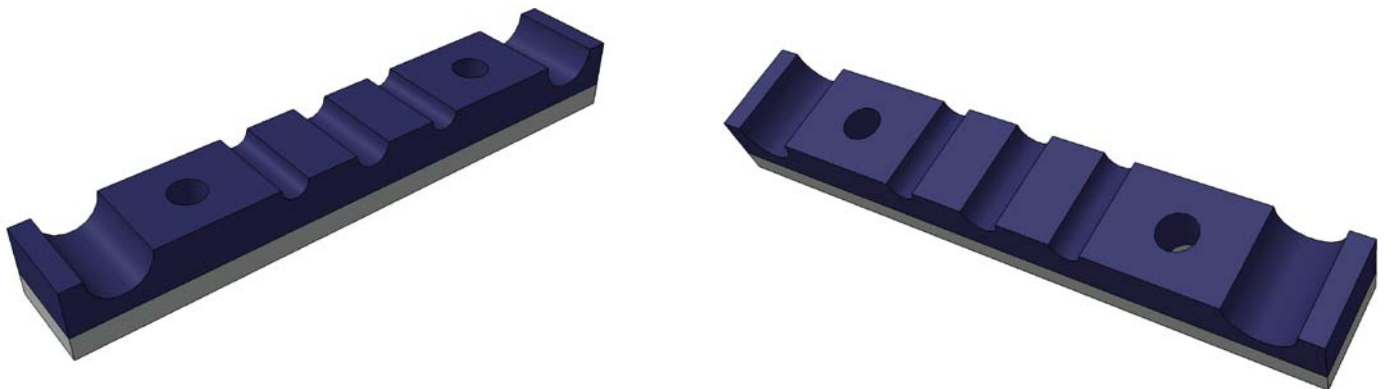
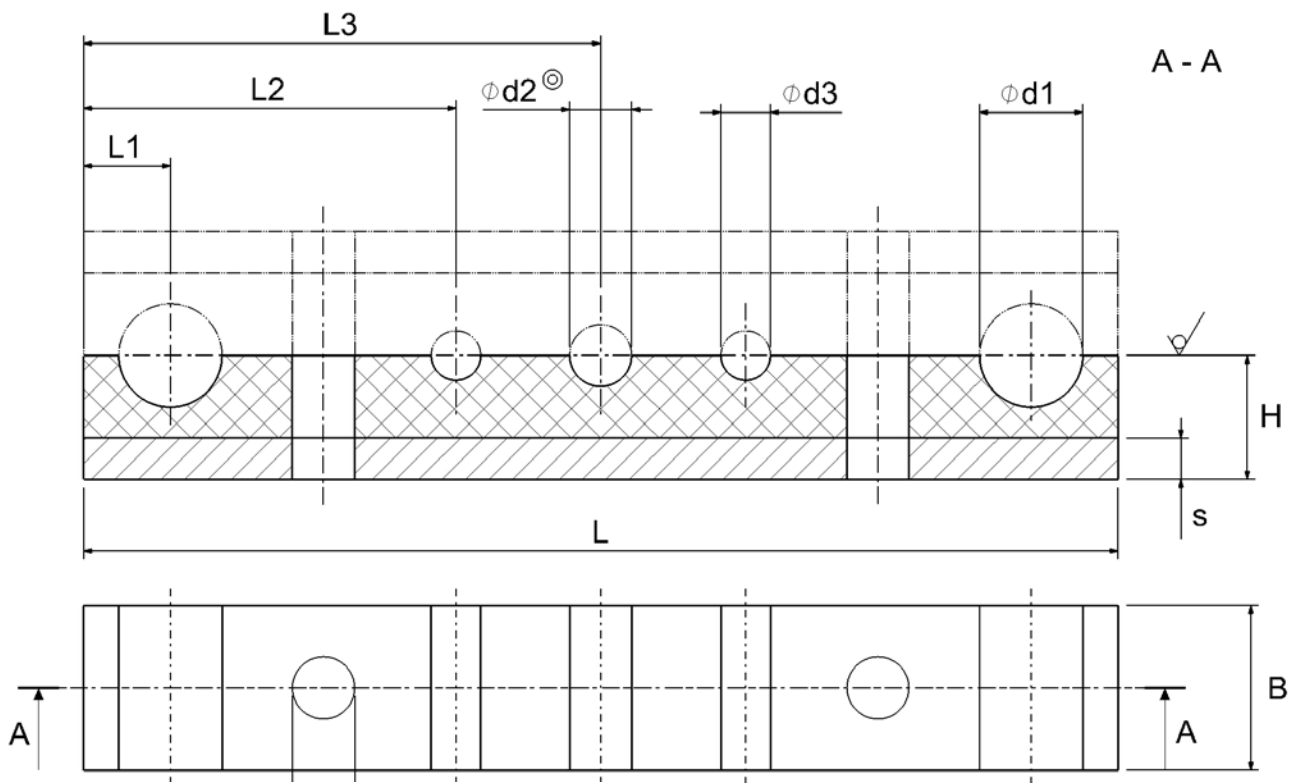
| Type  | L   | L1  | H  | B  | s  | l    | d1   | d2   | d3   | d4 |
|-------|-----|-----|----|----|----|------|------|------|------|----|
| PLT01 | 224 | 199 | 30 | 30 | 8  | 12,5 | 2x25 | 3x28 | -    | 12 |
| PLT02 | 190 | 170 | 30 | 40 | 10 | 10   | 1x25 | 3x24 | 1x28 | 11 |
| PLT03 | 140 | 120 | 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 |
|--------------|-----|-----|----|----|----|---|--------|------|------|----|
| <b>TLT01</b> | 229 | 278 | 30 | 40 | 10 | 8 | 5x25   | 3x28 | -    | 9  |
| <b>TLT02</b> | 229 | 213 | 30 | 40 | 10 | 8 | 8x20   | -    | -    | 10 |
| <b>TLT03</b> | 290 | 274 | 30 | 40 | 10 | 8 | 2x2    | 2x25 | 4x28 | 11 |
| <b>TLT04</b> | 242 | 222 | 30 | 30 | 10 | 9 | 8x25,5 | -    | -    | 11 |

# BLT

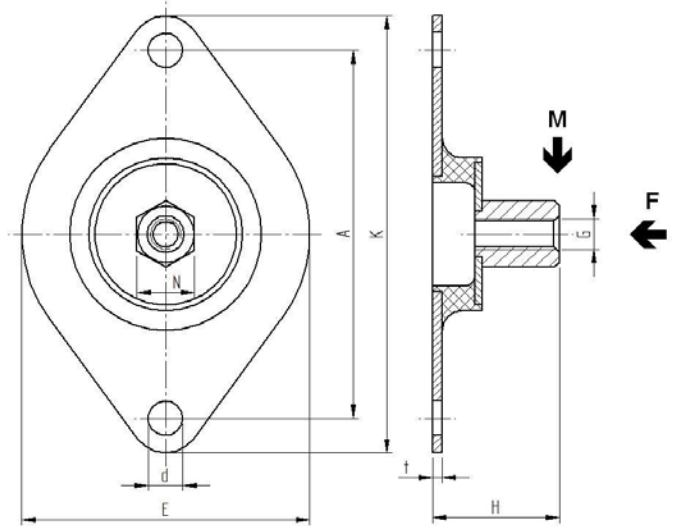
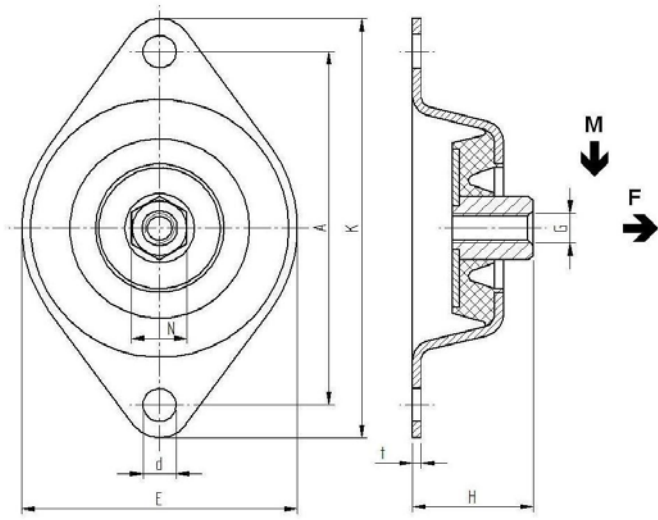


| Type         | L   | L1   | L2  | L3   | H  | B  | s  | d    | d1   | d2   | d3   |
|--------------|-----|------|-----|------|----|----|----|------|------|------|------|
| <b>BLT01</b> | 210 | 54   | 102 | 54   | 30 | 30 | 10 | 2x9  | 8x20 | -    | -    |
| <b>BLT02</b> | 165 | 63,5 | 38  | 6,35 | 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 | -    |

# HNG

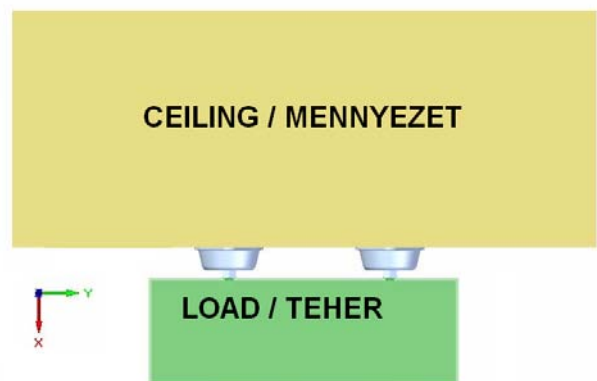
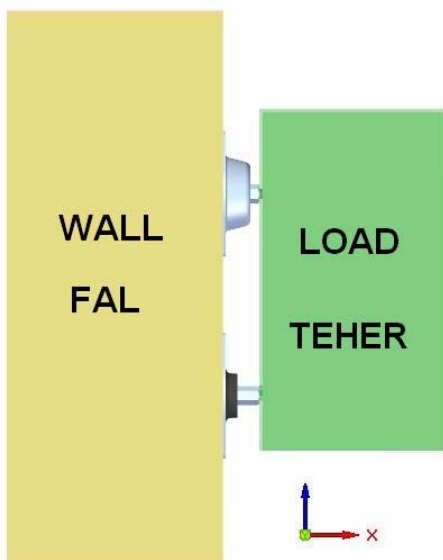
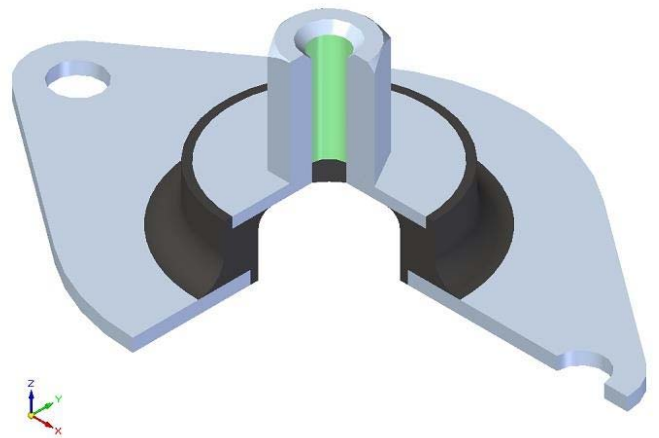
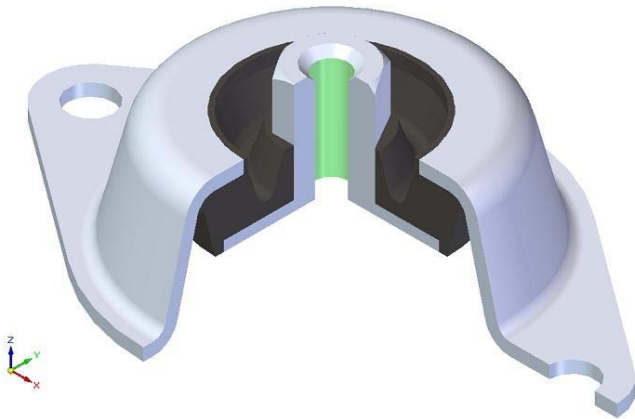
HNG-UPPER

HNG-LOWER

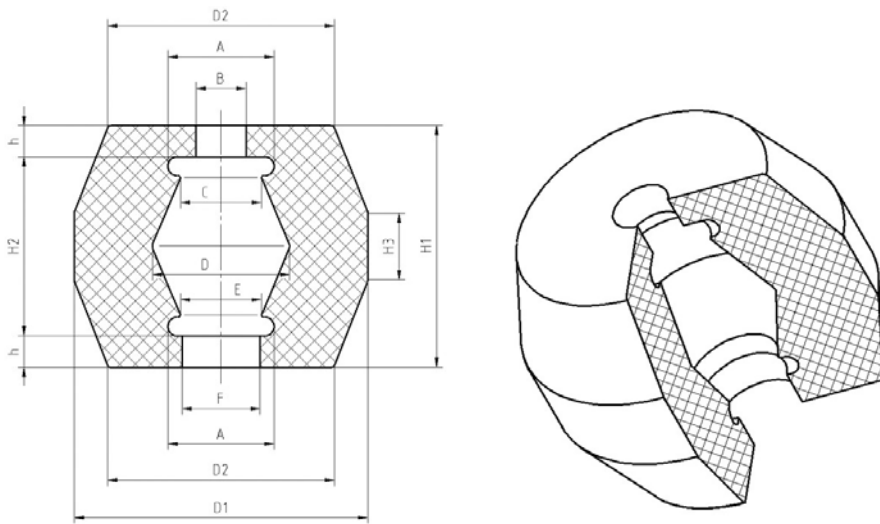


| Type      | E  | K   | A  | H  | d | N  | t   | G  |
|-----------|----|-----|----|----|---|----|-----|----|
| HNG-upper | 75 | 114 | 96 | 33 | 9 | 15 | 2,5 | M8 |
| HNG-lower | 75 | 114 | 96 | 33 | 9 | 15 | 2,5 | M8 |

| Type<br>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     |

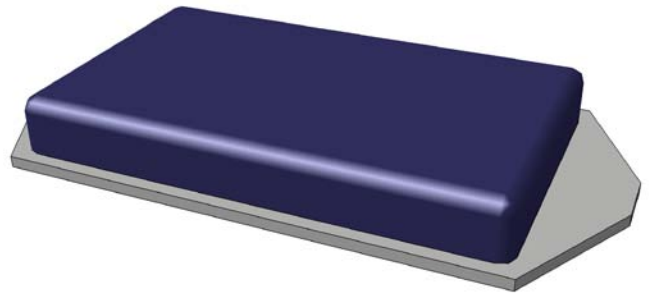
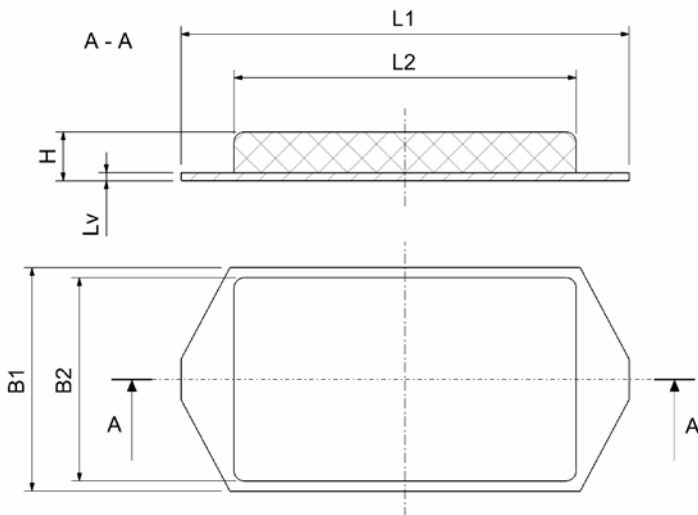


## GF



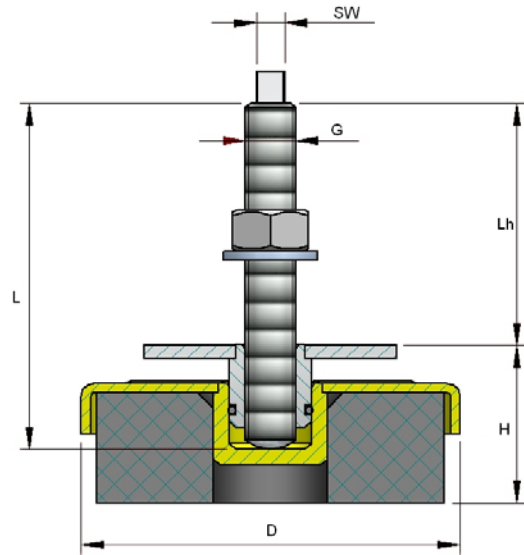
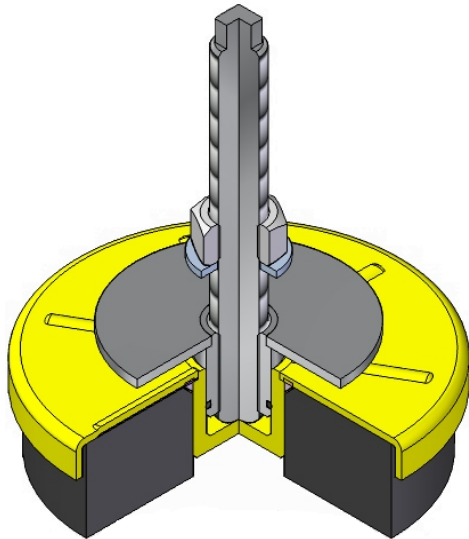
| Type           | D1  | H1  | D2  | A  | B  | C  | D  | E  | F  | H2  | H3 | h   |
|----------------|-----|-----|-----|----|----|----|----|----|----|-----|----|-----|
| <b>55/55</b>   | 55  | 55  | 42  | 22 | 14 | 15 | 24 | 15 | 14 | 35  | 15 | 10  |
| <b>56/90</b>   | 90  | 56  | 75  | 32 | 14 |    | 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  |

## 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  |

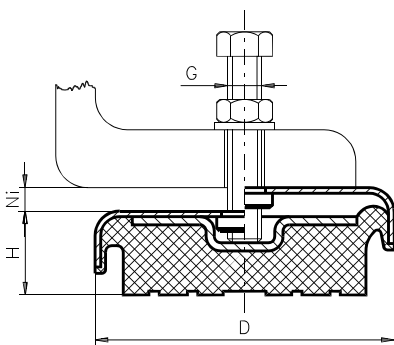
## MFL



|              | 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           |

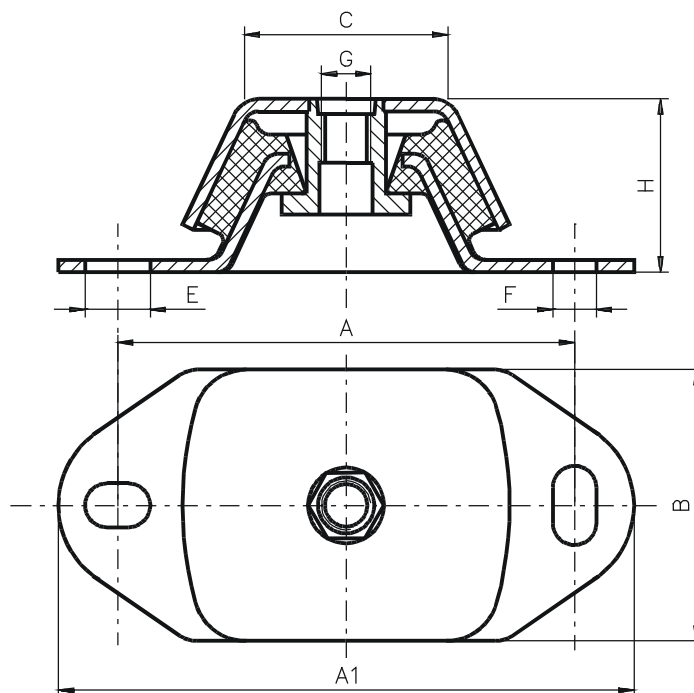
## KA



| 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        |

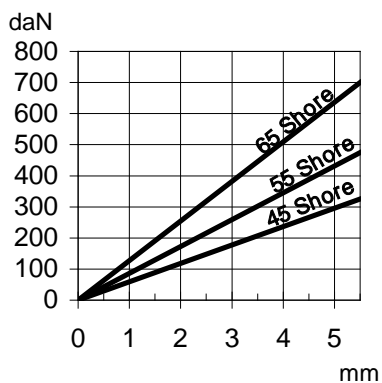


# MF

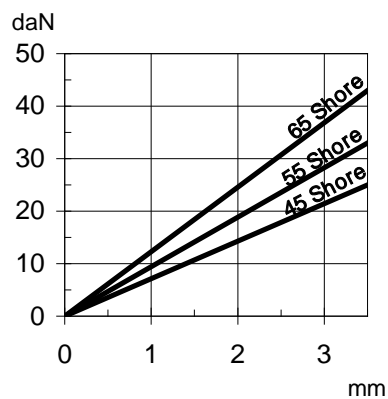


| Type | A   | A1  | B   | C  | E     | F     | G   | H  |
|------|-----|-----|-----|----|-------|-------|-----|----|
| 01   | 182 | 230 | 112 | 80 | 25x18 | 18x33 | M20 | 73 |
| 02   | 140 | 183 | 75  | 75 | 20x13 | 13x30 | M16 | 50 |
| 03   | 100 | 120 | 60  | 60 | 11x14 | 11x14 | M10 | 40 |

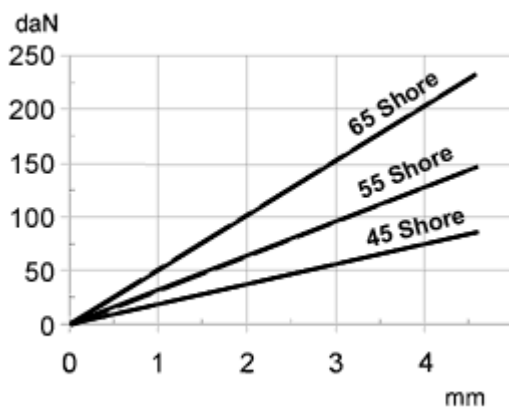
MF-01



MF-03

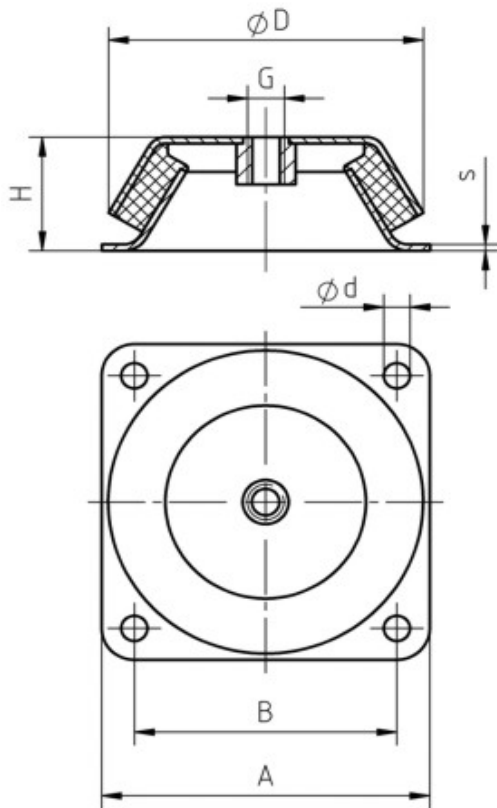


MF-02





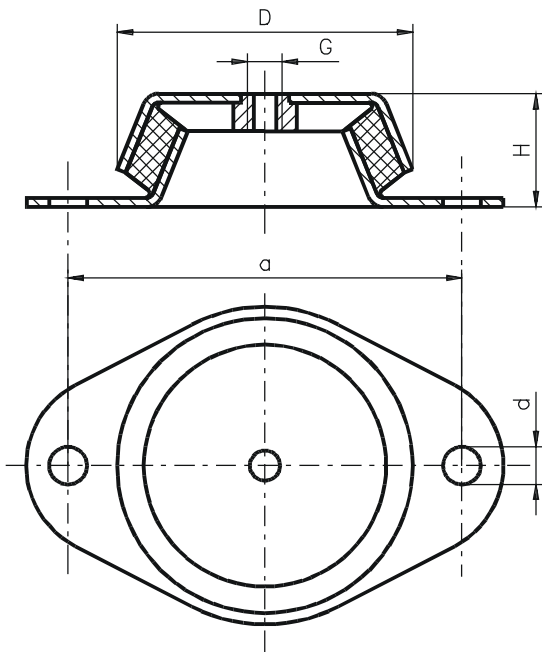
## QMF



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

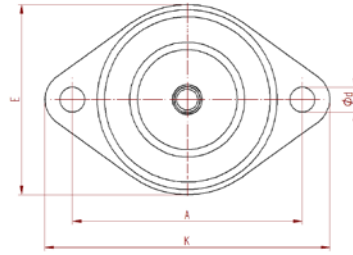
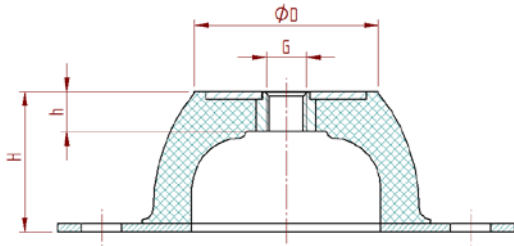


## GMF

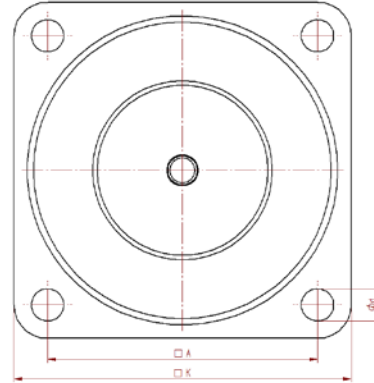
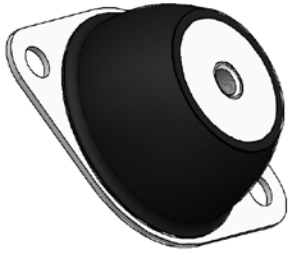


| D/H           | D   | H  | a   | d    | G   | Load (daN) |
|---------------|-----|----|-----|------|-----|------------|
| <b>48/23</b>  | 48  | 23 | 68  | 6,2  | M8  | 100        |
| <b>62/30</b>  | 62  | 30 | 85  | 8,2  | M10 | 200        |
| <b>92/45</b>  | 92  | 45 | 110 | 10,2 | M12 | 300        |
| <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       |

# VIBR M



VIBR M0007  
VIBR M0025  
VIBR M0050  
VIBR M0100  
VIBR M0200

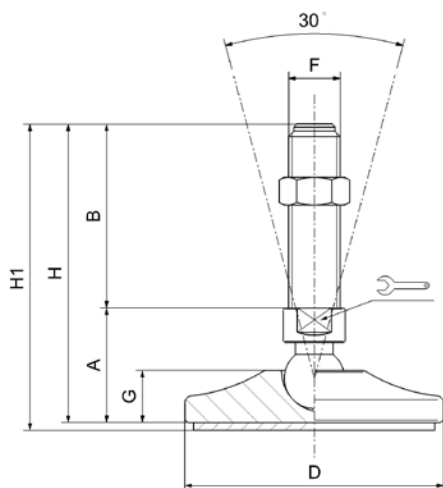


VIBR M0400  
VIBR M0600  
VIBR M1500

| 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 |

| Type       | MAX (KG) |        |
|------------|----------|--------|
|            | 40° Sh   | 60° Sh |
| VIBR M0007 | 3,5      | 9      |
| VIBR M0025 | 20       | 50     |
| VIBR M0050 | 40       | 80     |
| VIBR M0100 | 70       | 150    |
| VIBR M0200 | 130      | 220    |
| VIBR M0400 | 280      | 500    |
| VIBR M0600 | 380      | 750    |
| VIBR M1500 | 1400     | 2500   |

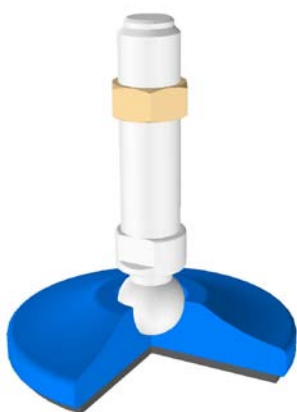
# MAR – 35 INOX / STEEL




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  |


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  |  | 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 INOX | A STEEL | D  |  | G  | H INOX | H STEEL | H1 INOX | H1 STEEL | Load N |       |
|-----------|------------|---------|--------|---------|----|---|----|--------|---------|---------|----------|--------|-------|
| 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 |

| INOX Type | STEEL Type | F x B   | A INOX | A STEEL | D  |  | G  | H INOX | H STEEL | H1 INOX | H1 STEEL | Load N |       |
|-----------|------------|---------|--------|---------|----|---|----|--------|---------|---------|----------|--------|-------|
| 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 |

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   |  | G  | H   | H1  | Load N |
|-----------|------------|---------|----|-----|--|----|-----|-----|--------|
| 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  |

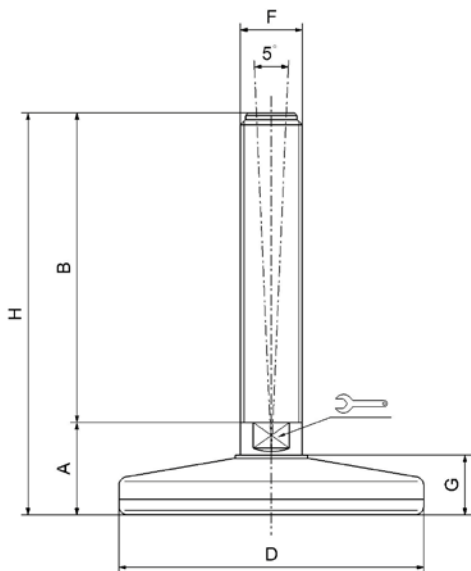
| INOX Type | STEEL Type | F x B   | A  | D   |  | G  | H   | H1  | Load N |
|-----------|------------|---------|----|-----|--|----|-----|-----|--------|
| 10595     | 10815      | M16x50  | 46 | 120 | 20   | 23 | 96  | 99  | 35000  |
| 10597     | 10817      | M16x75  | 46 | 120 | 20   | 23 | 121 | 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  |

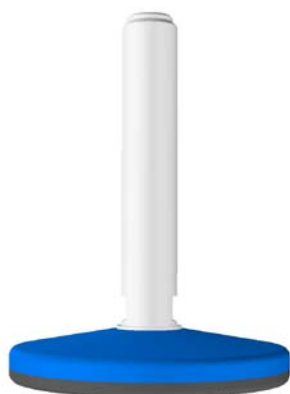
The above indicated load values refer to load measured at half length of the screw. In case of high vibration or by dynamic load these values should be reduced. Please consult your supplier.




# MAR – 39 INOX





**INOX**




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

| 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  |

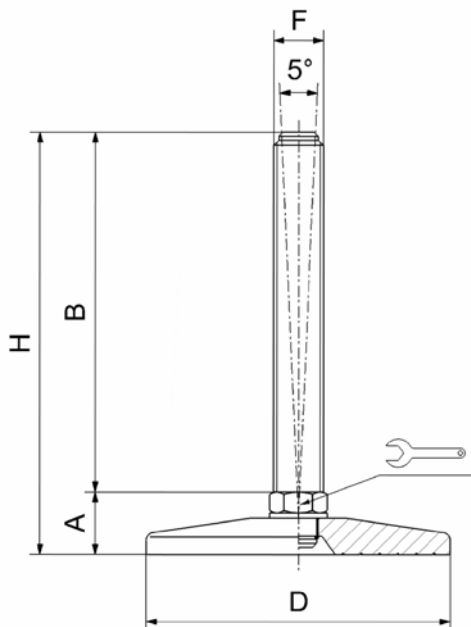


| Type  | F x B   | A  | D   |  | G    | H   | Load N |
|-------|---------|----|-----|---|------|-----|--------|
| 15094 | M20x75  | 39 | 150 | 17  | 26,5 | 114 | 50000  |
| 15095 | M20x100 | 39 | 150 | 17  | 26,5 | 139 | 50000  |
| 15096 | M20x125 | 39 | 150 | 17  | 26,5 | 164 | 50000  |
| 15097 | M20x150 | 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 INOX





INOX





| 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  |

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.

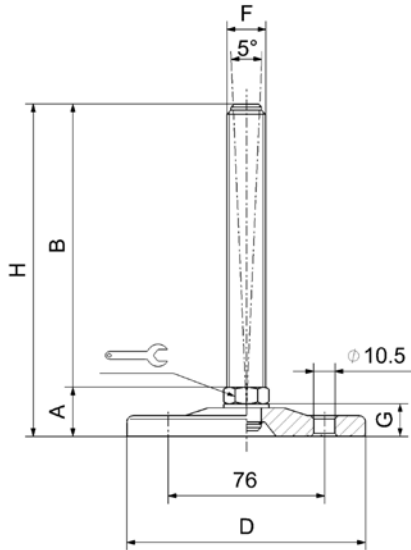
| Type       | F x B   | A  | D  |  | G    | H   | Load N |
|------------|---------|----|----|---|------|-----|--------|
| 15405/G    | M10x50  | 19 | 63 | 14  | 11,5 | 69  | 18000  |
| 15406/G    | M10x100 | 19 | 63 | 14  | 11,5 | 119 | 18000  |
| 15407/G    | M12x50  | 19 | 63 | 14  | 11,5 | 69  | 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  |

| 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





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  |


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 | 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  |

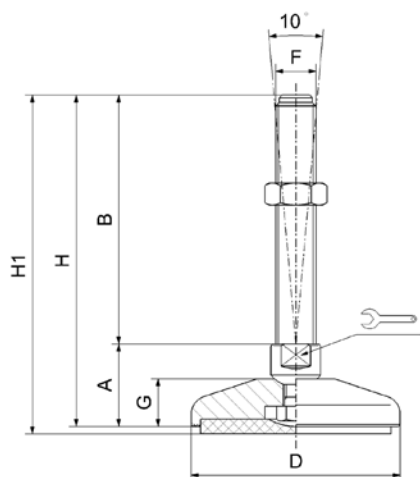
The above indicated load values refer to load measured at half length of the screw. In case of high vibration or by dynamic load these values should be reduced. Please consult your supplier.

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

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 – 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  |

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   |  |       | 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  |

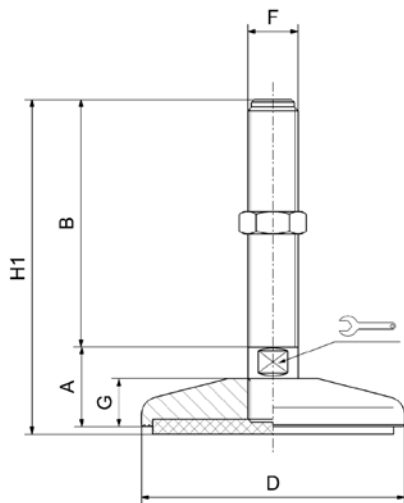
| INOX Type | STEEL Type | F x B   | A    |       | D   |  |       | G  | H    |       | H1  |     | Load N |
|-----------|------------|---------|------|-------|-----|---|-------|----|------|-------|-----|-----|--------|
|           |            |         | INOX | STEEL |     | INOX  | STEEL |    | INOX | 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  |

| INOX Type | STEEL Type | F x B   | A    |       | D   |  |       | G  | H    |       | H1  |     | Load N |
|-----------|------------|---------|------|-------|-----|---|-------|----|------|-------|-----|-----|--------|
|           |            |         | 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  |

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 – 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  |

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.

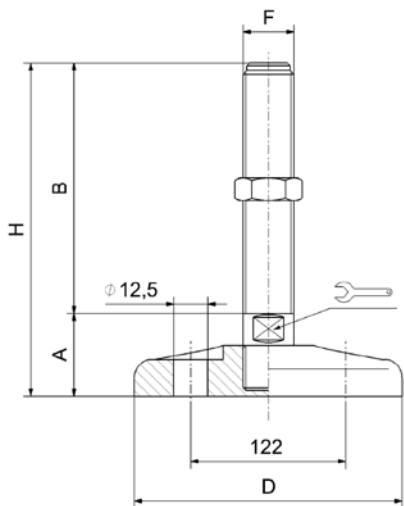
| INOX Type | STEEL Type | F x B   | A INOX | A STEEL | D   |  |       | G  | H1 INOX | H1 STEEL | Load N |
|-----------|------------|---------|--------|---------|-----|---|-------|----|---------|----------|--------|
|           |            |         |        |         |     | INOX  | STEEL |    |         |          |        |
| 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   |  |       | 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   |  |       | 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  |

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 – 57 INOX / STEEL



INOX





STEEL



| INOX Type | STEEL Type | F x B   | A    |       | D   | Wrench |       | G  | H    |       | Load N |
|-----------|------------|---------|------|-------|-----|--------|-------|----|------|-------|--------|
|           |            |         | INOX | STEEL |     | INOX   | STEEL |    | 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  |

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.

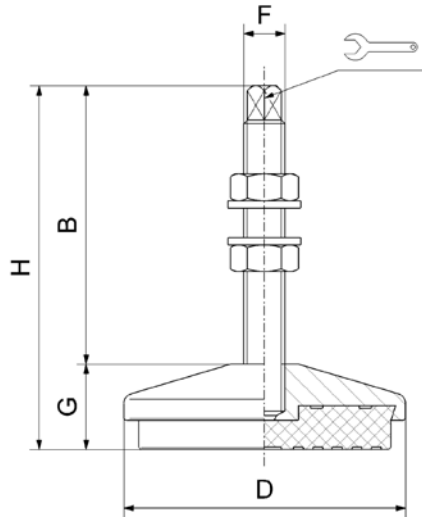
| INOX Type  | STEEL Type | F x B   | A INOX | A STEEL | D   |  |       | G  | H INOX | H STEEL | Load N |
|------------|------------|---------|--------|---------|-----|--|-------|----|--------|---------|--------|
|            |            |         |        |         |     | INOX   | STEEL |    |        |         |        |
| 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   |  |       | 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  |

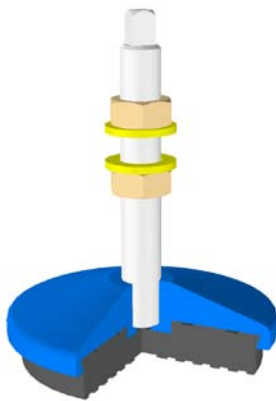
The above indicated load values refer to load measured at half length of the screw. In case of high vibration or by dynamic load these values should be reduced. Please consult your supplier.




# MAR – 115 INOX / STEEL / YELLOW



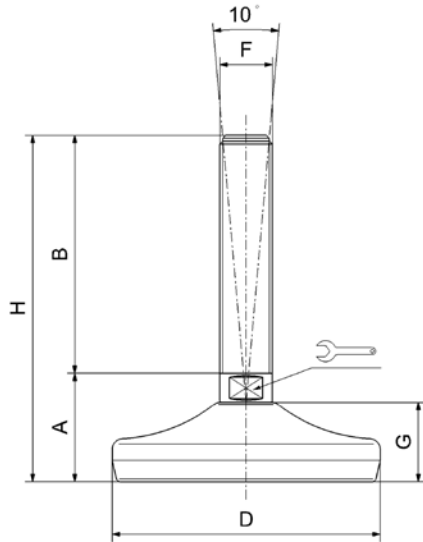
INOX/STEEL/YELLOW



| 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 / galvánzott    I = inox / A2 / rozsdamentes


# MAR – 129 INOX / STEEL




INOX/STEEL




| INOX Type | STEEL Type | F x B   | A  | D  | Wrench |       | 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  |



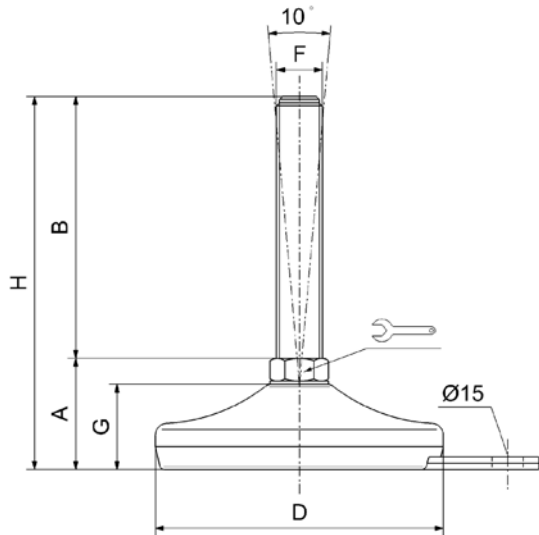
|       |       |         |    |     |    |    |    |     |       |       |
|-------|-------|---------|----|-----|----|----|----|-----|-------|-------|
| 25158 | 26140 | M24X200 | 44 | 100 | 20 | 24 | 30 | 244 | 238,5 | 15000 |
| 25160 | -     | M24X225 | 44 | 100 | 20 | -  | 30 | 269 | -     | 15000 |
| 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 |

| INOX Type | STEEL Type | F x B   | A  | D   |  |       | G  | H    |       | Load N |
|-----------|------------|---------|----|-----|---|-------|----|------|-------|--------|
|           |            |         |    |     | INOX  | STEEL |    | 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  |

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 – 130 INOX / STEEL





INOX / STEEL



| INOX Type  | STEEL Type | F x B   | A  | D  | Wrench |       | G  | H INOX | H STEEL | I  | Load N |
|------------|------------|---------|----|----|--------|-------|----|--------|---------|----|--------|
|            |            |         |    |    | 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  |

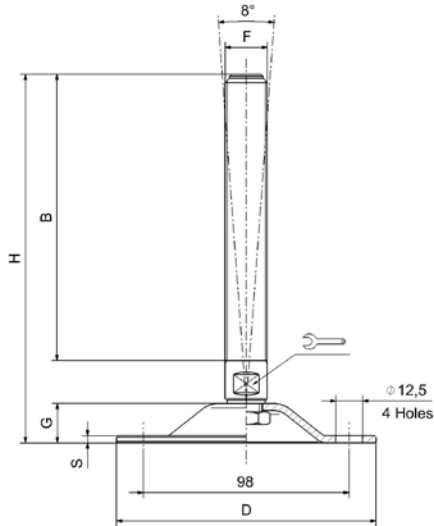
The above indicated load values refer to load measured at half length of the screw. In case of high vibration or by dynamic load these values should be reduced. Please consult your supplier.

| INOX Type | STEEL Type | F x B   | A  | D  |  |       | G  | H INOX | H STEEL | I  | Load N |
|-----------|------------|---------|----|----|--|-------|----|--------|---------|----|--------|
|           |            |         |    |    | 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   |  |       | G  | H INOX | H STEEL | I  | Load N |
|-----------|------------|---------|------|-----|---|-------|----|--------|---------|----|--------|
|           |            |         |      |     | 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  |

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.

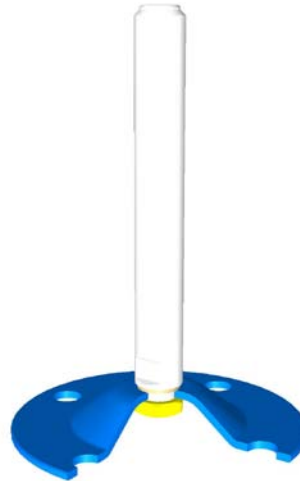
# MAR – 123 INOX / STEEL



INOX



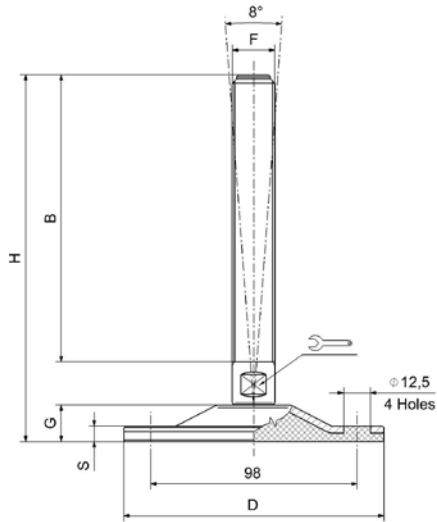
STEEL



| INOX Type | STEEL Type | F x B   | S    |       | D    |       | Wrench | 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  |

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.

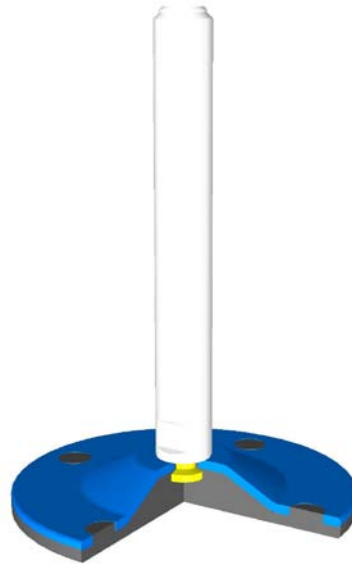
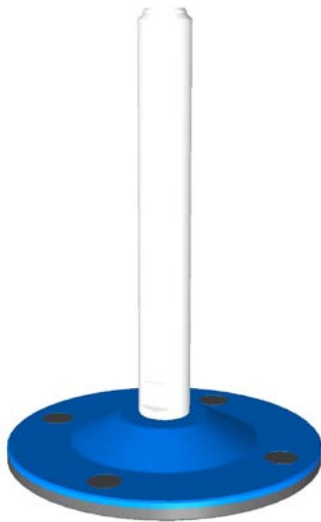
# MAR – 123 INOX / STEEL + ANTISLIP



INOX



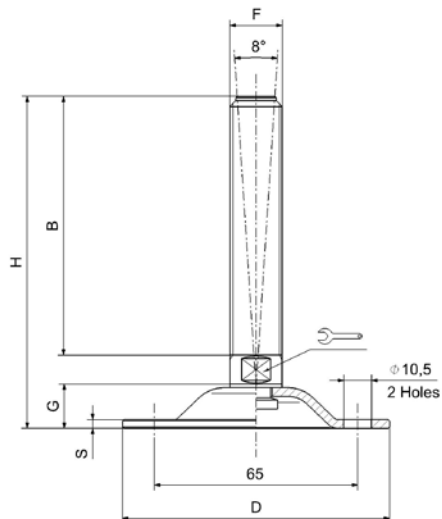
STEEL



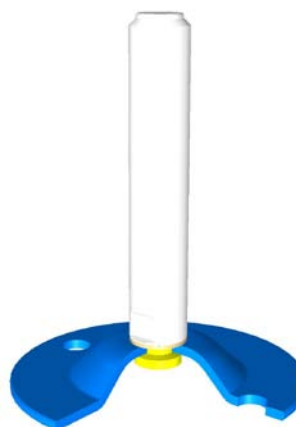
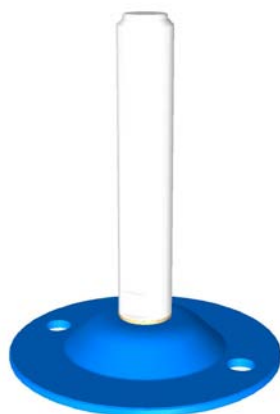
| INOX Type | STEEL Type | F x B   | S    |       | D    |       | Wrench |       | G    | H    |       | Load N |
|-----------|------------|---------|------|-------|------|-------|--------|-------|------|------|-------|--------|
|           |            |         | INOX | STEEL | INOX | STEEL | INOX   | 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  |


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 – 85 INOX



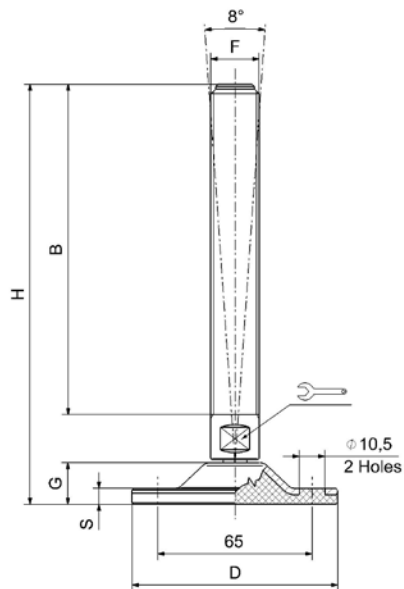
INOX



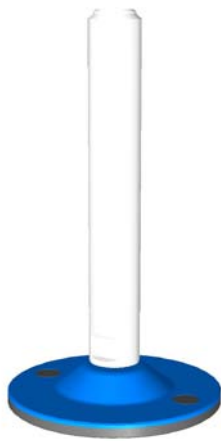
| INOX Type | F x B   | S | D  |  | G  | H   | Load N |
|-----------|---------|---|----|---|----|-----|--------|
| 15688     | M16x100 | 3 | 85 | 13  | 13 | 121 | 12000  |
| 15690     | M16x150 | 3 | 85 | 13  | 13 | 171 | 12000  |
| 15692     | M16x175 | 3 | 85 | 13  | 13 | 196 | 12000  |
| 15694   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


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 – 85 INOX / ANTISLIP



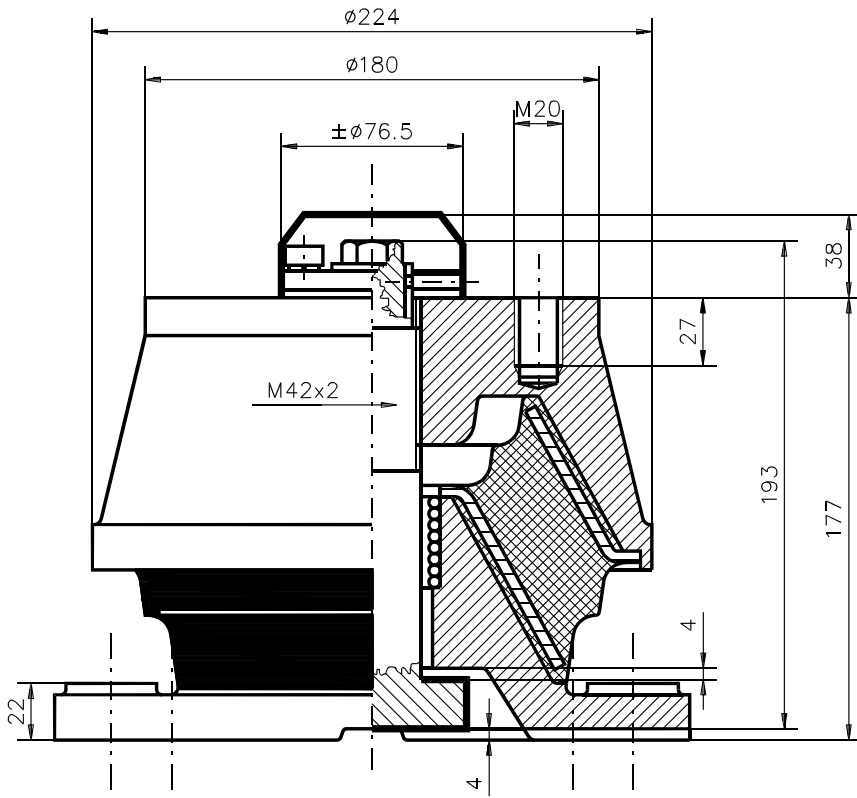
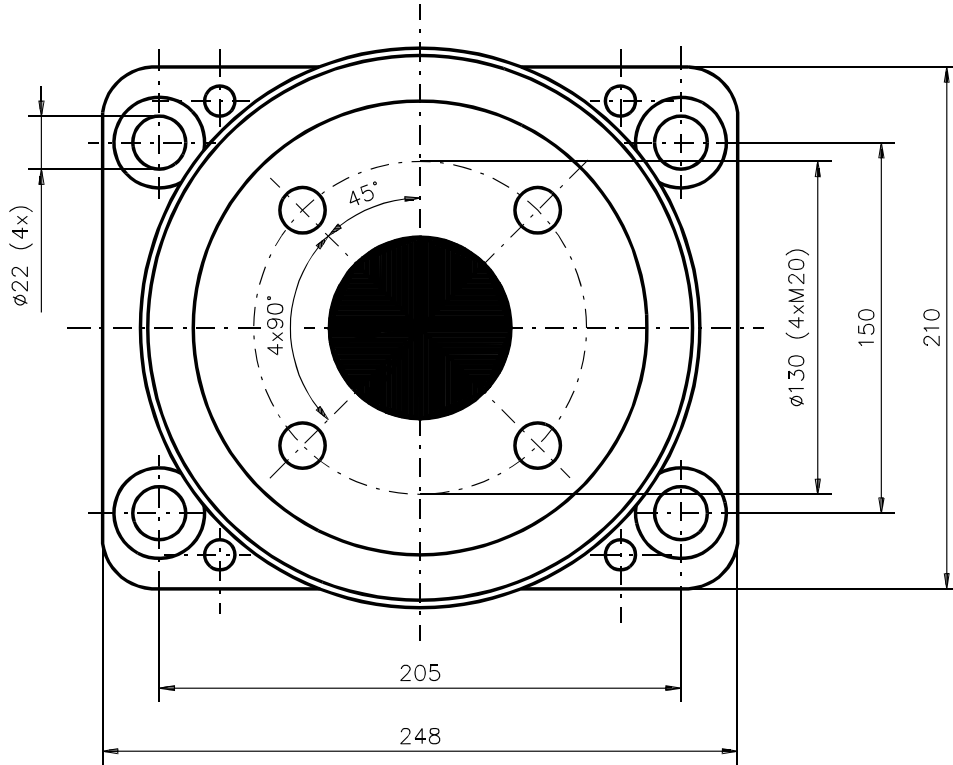
INOX

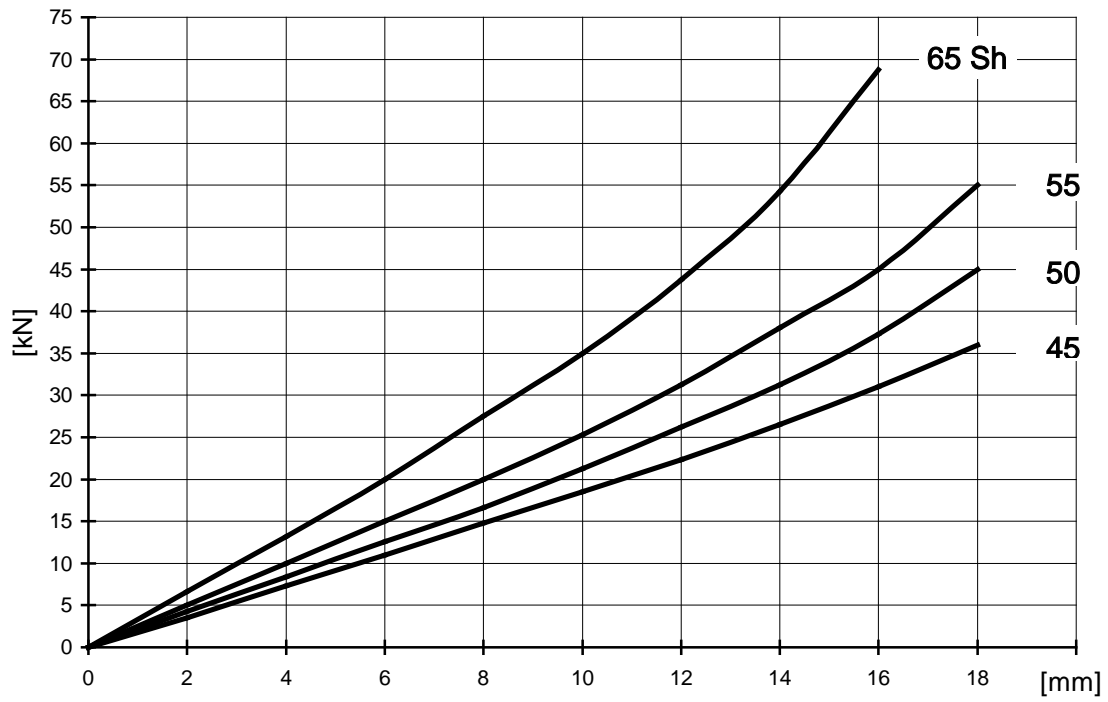


| INOX+RUBBER Type | F x B   | S | D  |  | G  | H   | Load N |
|------------------|---------|---|----|---|----|-----|--------|
| 15688/V          | M16x100 | 7 | 85 | 13  | 16 | 130 | 12000  |
| 15690/V          | M16x150 | 7 | 85 | 13  | 16 | 180 | 12000  |
| 15962/V          | M16x175 | 7 | 85 | 13  | 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  |

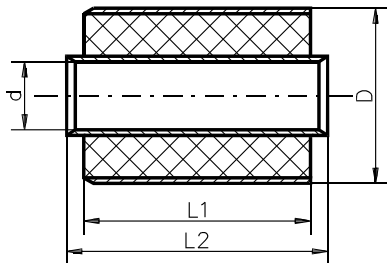
The above indicated load values refer to load measured at half length of the screw. In case of high vibration or by dynamic load these values should be reduced. Please consult your supplier.

# HEAVY DUTY VIBRATION DAMPER FOR STATIONARY AND MARINE APPLICATION





### BUSHING



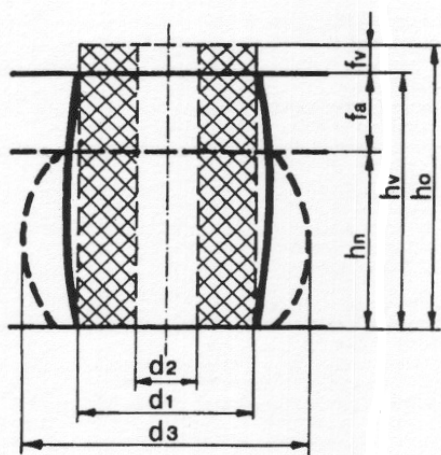
| D  | d    | L1 | L2 |
|----|------|----|----|
| 22 | 10   | 24 | 20 |
| 22 | 12   | 25 | 28 |
| 25 | 10   | 20 | 25 |
| 26 | 8,5  | 25 | 25 |
| 27 | 14   | 40 | 48 |
| 30 | 13   | 40 | 40 |
| 30 | 14   | 25 | 28 |
| 30 | 14   | 67 | 76 |
| 32 | 16   | 50 | 54 |
| 40 | 25   | 20 | 20 |
| 40 | 25   | 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 |



PU 80 Shore

Couleur / Colour / Farbe / Szín:

Rouge / Red / Rot / Piros



| 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          |                      |
|                      |                      | 80                   | 72                   | 20                   | 720          |                      |
| 50                   | 17                   | 32                   | 28,5                 | 7,5                  | 1200         | ~66                  |
|                      |                      | 40                   | 36                   | 10                   | 1170         |                      |
|                      |                      | 50                   | 45                   | 12,5                 | 1150         |                      |
|                      |                      | 63                   | 56                   | 15                   | 1130         |                      |
|                      |                      | 80                   | 72                   | 20                   | 1120         |                      |
|                      |                      | 100                  | 90                   | 25                   | 1110         |                      |
| 63                   | 17                   | 32                   | 28,5                 | 7,5                  | 2200         | ~80                  |
|                      |                      | 40                   | 36                   | 10                   | 1200         |                      |
|                      |                      | 50                   | 45                   | 12,5                 | 2000         |                      |
|                      |                      | 63                   | 56                   | 15                   | 1930         |                      |
|                      |                      | 80                   | 72                   | 20                   | 1890         |                      |
|                      |                      | 100                  | 90                   | 25                   | 1850         |                      |
|                      |                      | 125                  | 112                  | 30                   | 1820         |                      |
| 80                   | 21                   | 32                   | 28,5                 | 7,5                  | 3600         | ~105                 |
|                      |                      | 40                   | 36                   | 10                   | 3450         |                      |
|                      |                      | 50                   | 45                   | 12,5                 | 3280         |                      |
|                      |                      | 63                   | 56                   | 15                   | 3150         |                      |
|                      |                      | 80                   | 72                   | 20                   | 3100         |                      |
|                      |                      | 100                  | 90                   | 25                   | 3040         |                      |
|                      |                      | 125                  | 112                  | 30                   | 2980         |                      |
| 100                  | 21                   | 32                   | 28,5                 | 7,5                  | 6000         | ~127                 |
|                      |                      | 40                   | 36                   | 10                   | 5750         |                      |
|                      |                      | 50                   | 45                   | 12,5                 | 5520         |                      |
|                      |                      | 63                   | 56                   | 15                   | 5320         |                      |
|                      |                      | 80                   | 72                   | 20                   | 5120         |                      |
|                      |                      | 100                  | 90                   | 25                   | 4980         |                      |
| 125                  | 27                   | 32                   | 28,5                 | 7,5                  | 10000        | ~155                 |
|                      |                      | 40                   | 36                   | 10                   | 9580         |                      |
|                      |                      | 50                   | 45                   | 12,5                 | 8800         |                      |
|                      |                      | 63                   | 56                   | 15                   | 8520         |                      |
|                      |                      | 80                   | 72                   | 20                   | 8060         |                      |
|                      |                      | 100                  | 90                   | 25                   | 7800         |                      |
|                      |                      | 125                  | 112                  | 30                   | 7700         |                      |
|                      |                      | 160                  | 144                  | 40                   | 7580         |                      |

**PU 90 Shore**

Couleur / Colour / Farbe / Szín:

Bleu / Blue / Blau / Kék

| 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                 | 11,5                 | 2                    | 158          | ~20                  |
|                      |                      | 16                   | 14,5                 | 3                    | 153          |                      |
|                      |                      | 20                   | 18                   | 4                    | 150          |                      |
|                      |                      | 25                   | 22,5                 | 5                    | 148          |                      |
| 20                   | 8,5                  | 16                   | 14,5                 | 3                    | 235          | ~27                  |
|                      |                      | 20                   | 18                   | 4                    | 230          |                      |
|                      |                      | 25                   | 22,5                 | 5                    | 228          |                      |
|                      |                      | 32                   | 28,5                 | 6                    | 226          |                      |
| 25                   | 8,5                  | 20                   | 18                   | 4                    | 398          | ~32                  |
|                      |                      | 25                   | 22,5                 | 5                    | 390          |                      |
|                      |                      | 32                   | 28,5                 | 6                    | 386          |                      |
|                      |                      | 40                   | 36                   | 8                    | 382          |                      |
| 32                   | 13,5                 | 32                   | 28,5                 | 6                    | 595          | ~39                  |
|                      |                      | 40                   | 36                   | 8                    | 585          |                      |
|                      |                      | 50                   | 45                   | 10                   | 580          |                      |
|                      |                      | 63                   | 56                   | 12                   | 757          |                      |
| 40                   | 13,5                 | 32                   | 28,5                 | 6                    | 1020         | ~49                  |
|                      |                      | 40                   | 36                   | 8                    | 1000         |                      |
|                      |                      | 50                   | 45                   | 10                   | 995          |                      |
|                      |                      | 63                   | 56                   | 12                   | 990          |                      |
| 50                   | 17                   | 80                   | 72                   | 16                   | 985          | ~62                  |
|                      |                      | 32                   | 28,5                 | 6                    | 1600         |                      |
|                      |                      | 40                   | 36                   | 8                    | 1575         |                      |
|                      |                      | 50                   | 45                   | 10                   | 1550         |                      |
| 63                   | 17                   | 63                   | 56                   | 12                   | 1530         | ~79                  |
|                      |                      | 80                   | 72                   | 16                   | 1515         |                      |
|                      |                      | 100                  | 90                   | 20                   | 1500         |                      |
|                      |                      | 125                  | 112                  | 24                   | 1500         |                      |
| 80                   | 21                   | 32                   | 28,5                 | 6                    | 2800         | ~102                 |
|                      |                      | 40                   | 36                   | 8                    | 2720         |                      |
|                      |                      | 50                   | 45                   | 10                   | 2650         |                      |
|                      |                      | 63                   | 56                   | 12                   | 2600         |                      |
| 100                  | 21                   | 80                   | 72                   | 16                   | 2550         | ~125                 |
|                      |                      | 100                  | 90                   | 20                   | 2500         |                      |
|                      |                      | 125                  | 112                  | 24                   | 2450         |                      |
|                      |                      | 32                   | 28,5                 | 6                    | 4970         |                      |
| 125                  | 27                   | 40                   | 36                   | 8                    | 4660         | ~150                 |
|                      |                      | 50                   | 45                   | 10                   | 4520         |                      |
|                      |                      | 63                   | 56                   | 12                   | 4340         |                      |
|                      |                      | 80                   | 72                   | 16                   | 4200         |                      |
| 100                  | 21                   | 100                  | 90                   | 20                   | 4130         | ~125                 |
|                      |                      | 125                  | 112                  | 24                   | 4050         |                      |
|                      |                      | 32                   | 28,5                 | 6                    | 8050         |                      |
|                      |                      | 40                   | 36                   | 8                    | 7740         |                      |
| 125                  | 27                   | 50                   | 45                   | 10                   | 7420         | ~150                 |
|                      |                      | 63                   | 56                   | 12                   | 7140         |                      |
|                      |                      | 80                   | 72                   | 16                   | 6900         |                      |
|                      |                      | 100                  | 90                   | 20                   | 6700         |                      |
| 125                  | 27                   | 125                  | 112                  | 24                   | 6520         | ~150                 |
|                      |                      | 32                   | 28,5                 | 6                    | 12450        |                      |
|                      |                      | 40                   | 36                   | 8                    | 12000        |                      |
|                      |                      | 50                   | 45                   | 10                   | 11550        |                      |
| 100                  | 21                   | 63                   | 56                   | 12                   | 11150        | ~125                 |
|                      |                      | 80                   | 72                   | 16                   | 10700        |                      |
|                      |                      | 100                  | 90                   | 20                   | 10300        |                      |
|                      |                      | 125                  | 112                  | 24                   | 10050        |                      |
| 125                  | 27                   | 160                  | 144                  | 32                   | 9850         | ~150                 |

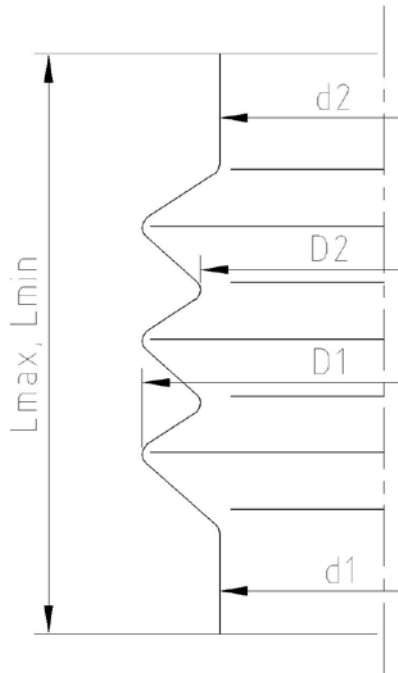
**PU 95 Shore**

Couleur / Colour / Farbe / Szín:

Vert / Green / Grün / Zöld

| 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                   | 1,5                  | 192          | ~19,5                |
|                      |                      | 16                   | 14,5                 | 2                    | 188          |                      |
|                      |                      | 20                   | 18                   | 3                    | 185          |                      |
|                      |                      | 25                   | 22,5                 | 4                    | 182          |                      |
| 20                   | 8,5                  | 16                   | 14,5                 | 2                    | 290          | ~25                  |
|                      |                      | 20                   | 18                   | 3                    | 285          |                      |
|                      |                      | 25                   | 22,5                 | 4                    | 282          |                      |
|                      |                      | 32                   | 28,5                 | 4,5                  | 280          |                      |
| 25                   | 8,5                  | 20                   | 18                   | 3                    | 490          | ~30                  |
|                      |                      | 25                   | 22,5                 | 4                    | 480          |                      |
|                      |                      | 32                   | 28,5                 | 4,5                  | 475          |                      |
|                      |                      | 40                   | 36                   | 6                    | 470          |                      |
| 32                   | 13,5                 | 32                   | 28,5                 | 4,5                  | 730          | ~38                  |
|                      |                      | 40                   | 36                   | 6                    | 718          |                      |
|                      |                      | 50                   | 45                   | 7,5                  | 708          |                      |
|                      |                      | 63                   | 56                   | 9                    | 700          |                      |
| 40                   | 13,5                 | 32                   | 28,5                 | 4,5                  | 1250         | ~46                  |
|                      |                      | 40                   | 36                   | 6                    | 1230         |                      |
|                      |                      | 50                   | 45                   | 7,5                  | 1225         |                      |
|                      |                      | 63                   | 56                   | 9                    | 1215         |                      |
| 50                   | 17                   | 80                   | 72                   | 12                   | 1200         | ~59                  |
|                      |                      | 32                   | 28,5                 | 4,5                  | 2010         |                      |
|                      |                      | 40                   | 36                   | 6                    | 1960         |                      |
|                      |                      | 50                   | 45                   | 7,5                  | 1920         |                      |
| 63                   | 17                   | 63                   | 56                   | 9                    | 1900         | ~75                  |
|                      |                      | 80                   | 72                   | 12                   | 1880         |                      |
|                      |                      | 100                  | 90                   | 15                   | 1860         |                      |
|                      |                      | 125                  | 112                  | 18                   | 1860         |                      |
| 80                   | 21                   | 32                   | 28,5                 | 4,5                  | 3450         | ~98                  |
|                      |                      | 40                   | 36                   | 6                    | 3360         |                      |
|                      |                      | 50                   | 45                   | 7,5                  | 3280         |                      |
|                      |                      | 63                   | 56                   | 9                    | 3200         |                      |
| 100                  | 21                   | 80                   | 72                   | 12                   | 3150         | ~121                 |
|                      |                      | 100                  | 90                   | 15                   | 3110         |                      |
|                      |                      | 125                  | 112                  | 18                   | 3070         |                      |
|                      |                      | 32                   | 28,5                 | 4,5                  | 6000         |                      |
| 125                  | 27                   | 40                   | 36                   | 6                    | 5750         | ~105                 |
|                      |                      | 50                   | 45                   | 7,5                  | 5540         |                      |
|                      |                      | 63                   | 56                   | 9                    | 5360         |                      |
|                      |                      | 80                   | 72                   | 12                   | 5200         |                      |
| 100                  | 21                   | 100                  | 90                   | 15                   | 5130         | ~121                 |
|                      |                      | 125                  | 112                  | 18                   | 5060         |                      |
|                      |                      | 32                   | 28,5                 | 4,5                  | 10200        |                      |
|                      |                      | 40                   | 36                   | 6                    | 9700         |                      |
| 125                  | 27                   | 50                   | 45                   | 7,5                  | 9220         | ~105                 |
|                      |                      | 63                   | 56                   | 9                    | 8820         |                      |
|                      |                      | 80                   | 72                   | 12                   | 8570         |                      |
|                      |                      | 100                  | 90                   | 15                   | 8300         |                      |
| 125                  | 27                   | 125                  | 112                  | 18                   | 8100         | ~105                 |
|                      |                      | 32                   | 28,5                 | 4,5                  | 17200        |                      |
|                      |                      | 40                   | 36                   | 6                    | 16200        |                      |
|                      |                      | 50                   | 45                   | 7,5                  | 15100        |                      |
| 100                  | 21                   | 63                   | 56                   | 9                    | 14300        | ~121                 |
|                      |                      | 80                   | 72                   | 12                   | 13600        |                      |
|                      |                      | 100                  | 90                   | 15                   | 13000        |                      |
|                      |                      | 125                  | 112                  | 18                   | 12900        |                      |
| 125                  | 27                   | 160                  | 144                  | 24                   | 12800        | ~150                 |

## BELLOWS



According to customer's specification (sample and/or drawing)

## RUBBER PLATE

**Maximum dimension:** 1200x1950 mm

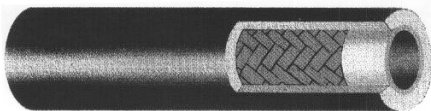
**Thickness:** 3-40 mm



**According to customer's specification:**

- textile inlay
- customer's specified forms
- plain surface
- imprinted surface
- pyramide-pattern surface

## 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

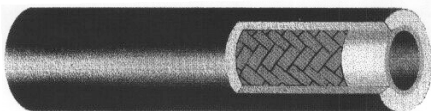
**Reinforcement:** Synthetic textile

**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                    |

## GÖZTÖMLŐ

### 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

\* Galvanized steel wire braiding, outer diameter including braiding

\* Horganyozott acélhuzal beszövással, külső átmérő páncélozással együtt

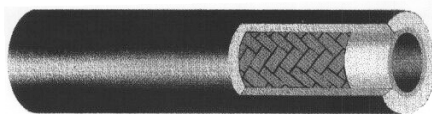
| Belső Ø ID (mm) | Külső Ø OD (mm) | Max üzemnyomás Max. Working Pressure (Mpa) | Biztonsági tényező Safety Factor | Minimális hajlítási sugár Min. Bend. Radius (mm) | Max. Hossz Length (m) |
|-----------------|-----------------|--|----------------------------------|--|-----------------------|
|-----------------|-----------------|--|----------------------------------|--|-----------------------|

|    |      |      |      |     |    |
|----|------|------|------|-----|----|
| 13 | 19   | 0,63 | 3,15 | -   |    |
| 13 | 20   | 1,00 | 3,15 | 90  |    |
| 13 | 21   | 2,50 | 4    | 80  |    |
| 16 | 23   | 0,63 | 3,15 | -   |    |
| 16 | 24   | 1,00 | 3,15 | 110 |    |
| 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 |

## WATER HOSE



## OIL HOSE



## OLAJTÖMLŐ

| 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                    |

### 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

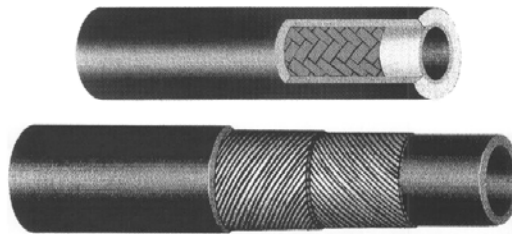
### Alkalmazás:

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 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) |
|-----------------|-----------------|--|----------------------------------|--|-----------------------|
| 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

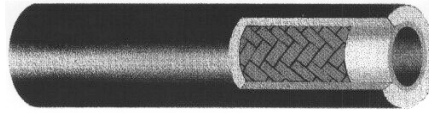
**Cover:** black, oil, abrasion and weather resistant NBR-PVC/BR based rubber

### 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 ID (mm) | Külső Ø OD (mm) | Max üzemnyomás Max. Working Pressure (Mpa) | Biztonsági tényező Safety Factor | Max. Hossz Length (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

## FUEL HOSE



| Belső Ø ID (mm) | Külső Ø OD (mm) | Minimális hajlítási sugár Min. Bend. Radius (mm) | Max. Hossz Length (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

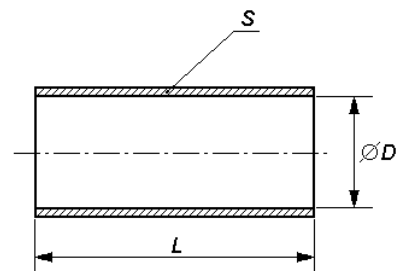
### Alkalmazás:

Gépjárművek hajlékony vezetékékként, üzemanyag vezetésére szolgál.

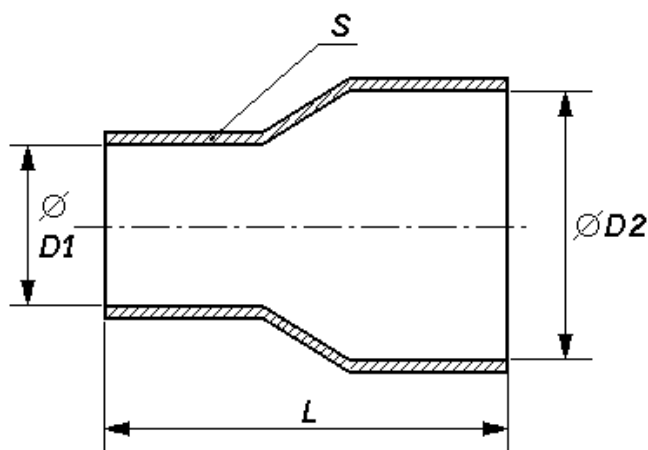
**Üzemi hőmérséklet:** : -25 °C — + 100 °C

## 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                         | %                       |

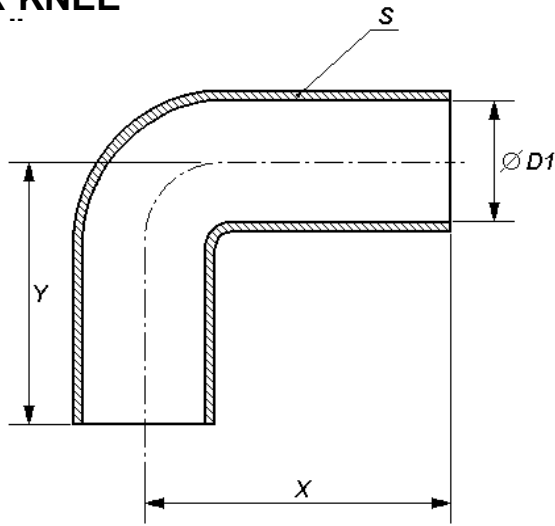


| D (mm) | D tolerance (mm) | L (mm) | S (mm)  |
|--------|------------------|--------|---------|
| 10     | +0 / -1          | 10(00) | 4 +1/-0 |
| 15     | +0 / -1          | 1000   | 4 +1/-0 |
| 16     | +0 / -1          | 1000   | 4 +1/-0 |
| 18     | +0 / -1          | 1000   | 4 +1/-0 |
| 19     | +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 |

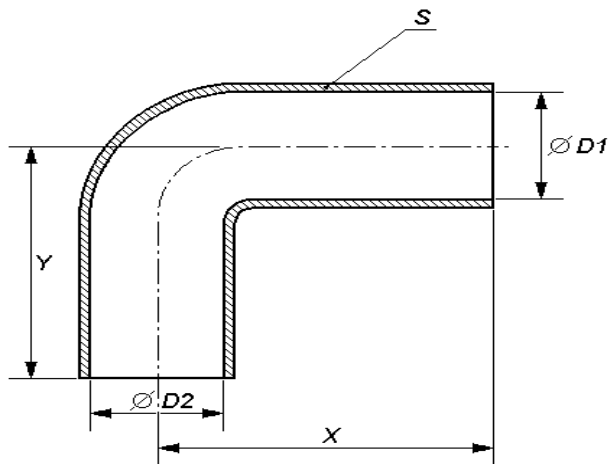
# RUBBER KNEE



| 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 $\pm$ 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                         | %                       |





## Anyagtulajdonságok

## Characteristics of materials

| Mechanikai tulajdonságok szobahőmérsékleten |                            | Mechanckal Characteristics at room temperature |                                  |
|---|----------------------------|--|----------------------------------|
| Maradandó deformáció                        | Magas hőm.                 | Durable Deformation                            | High temperature                 |
|   | Alacsony hőm.              | Low temperature.                               |                                  |
| Hőmérséklettartomány                        | -40C° +80-30 C°<br>+110 C° | -40 C° +150 C°                                 | -60 C° +150 C°                   |
| Továbbszaktító szilárdság                   | -30 C° +120 C°             | -30 C° +120 C°                                 | -30 C° +120 C°                   |
| Kopásállóság                                | ●                          | ●  | ●                                |
| Hidregállóság                               | ●                          | ●  | ●                                |
| Hőállóság                                   | ●                          | ●  | ●                                |
| Benzin                                      | ○                          | ○  | ○                                |
| Asványolaj (100 C°)                         | ○                          | ○  | ○                                |
| Savak (25%-os H2SO4, 50C°)                  | ○                          | ○  | ○                                |
| Lugok (25%-os NaOH, 50C°)                   | ○                          | ○  | ○                                |
| Víz (100 Co-on)                             | ○                          | ○  | ○                                |
| Időjárás és ózon                            | ○                          | ○  | ○                                |
| Fény  | ○                          | ○  | ○                                |
| Gázáteresztő képesség                       | ○                          | ○  | ○                                |
| Keménységtartomány, Shore                   | 30-90                      | 35-95  | 30-90                            |
| Szakítószilárdság                           | ●                          | ●  | ●                                |
| Szakadási nyúlás                            | ●                          | ●  | ●                                |
| Visszapattanási rugalmasság                 | ●                          | ●  | ●                                |
| Nemzetközi rövidítés                        | NBR                        | SBR  | EPDM                             |
| International abbreviation                  | Natural Rubber             | Styrene-Butadiene Rubber                       | Ethylene-Propylene-Diene Monomer |
| Shore hardness                              | 30-85                      | 25-90  | 30-95                            |
| Tensile strength                            | ○                          | ○  | ○                                |
| Tear streching                              | ○                          | ○  | ○                                |
| Reboundance elasticity                      | ○                          | ○  | ○                                |
| Persisting tensile strength                 | ○                          | ○  | ○                                |
| Temperature interval                        | ○                          | ○  | ○                                |
| Attrition resistance                        | ○                          | ○  | ○                                |
| Cold resistance                             | ○                          | ○  | ○                                |
| Heat resistance                             | ○                          | ○  | ○                                |
| Fuel/Patrol                                 | ○                          | ○  | ○                                |
| Mineral oil (100 C°)                        | ○                          | ○  | ○                                |
| Acid (25%-os H2SO4, 50C°)                   | ○                          | ○  | ○                                |
| Alkali (25%-os NaOH, 50C°)                  | ○                          | ○  | ○                                |
| Water (100 Co-on)                           | ○                          | ○  | ○                                |
| Weather and Ozon                            | ○                          | ○  | ○                                |
| UV  | ○                          | ○  | ○                                |
| Resistance                                  | ○                          | ○  | ○                                |
| Permeability to gases                       | ○                          | ○  | ○                                |

- =Excelent
- =Good
- =Satisfactory
- =Sufficient
- =Adverse
- =Complately inadequate

## 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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