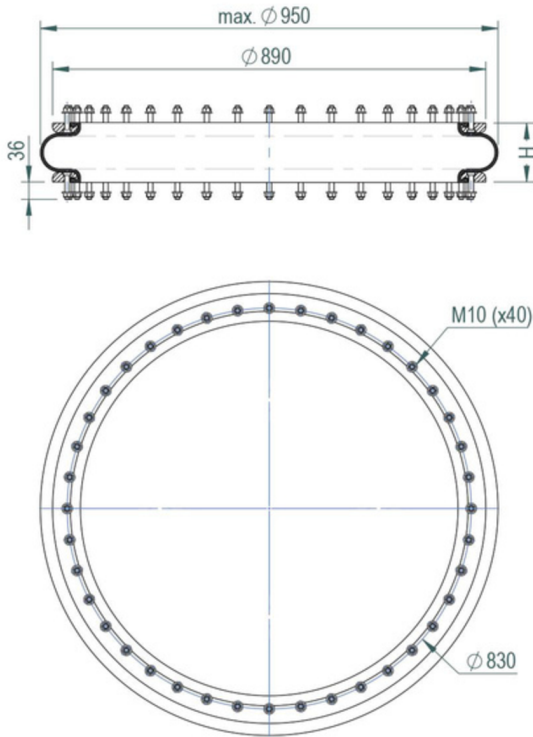


F SERIES
Socket Head Bead Ring Design

TV-140-1

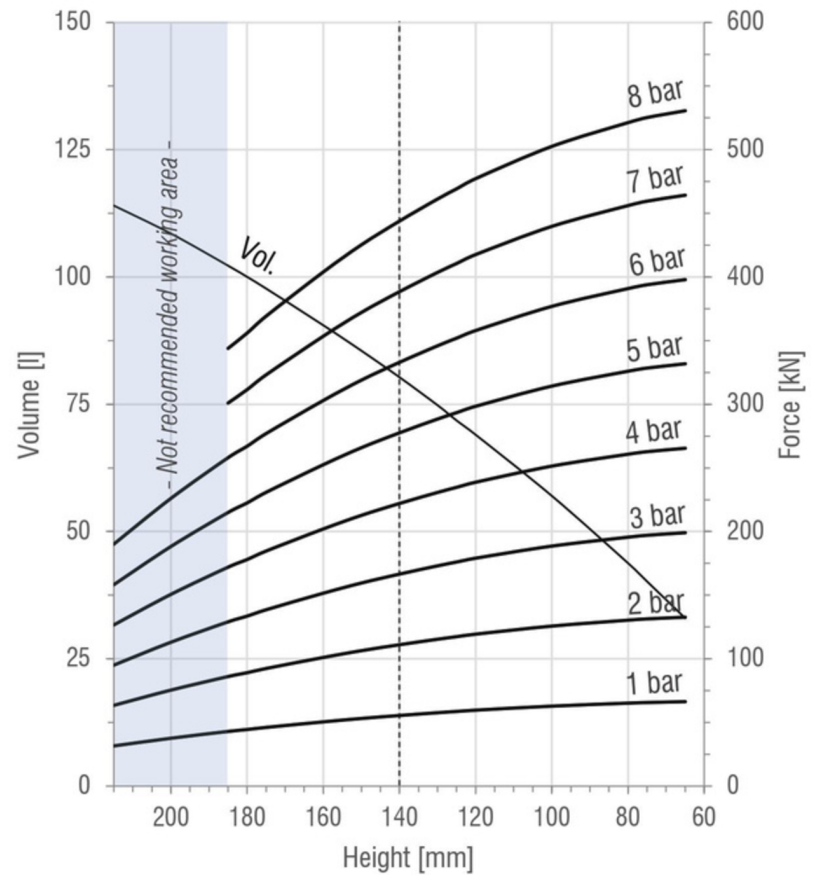
SINGLE
CONVOLUTION

DRAWING



M10 = 40 Nm

FORCE-HEIGHT CHART



TECHNICAL DATA

PRODUCT CHARACTERISTICS

| | |
|---|-------|
| Static diameter [mm] | 940 |
| Max. diameter [mm] | 950 |
| Required space diameter [mm] | 1.000 |
| Min. height [mm] | 65 |
| Static height [mm] | 130 |
| Design height [mm] | 140 |
| Max. usable height [mm] | 185 |
| Max. stroke [mm] | 120 |
| Force to compress to H_{min} at 0 bar [N] | 1.400 |
| Weight [kg] | 44,8 |

REFERENCES

| | |
|--------------|-----------------------------|
| M-140-1_B | Rubber bellow only |
| M-140-1_R_SH | With socket head bead rings |
| M-140-1_R_TR | With threaded bead rings |

Designs available with stainless steel and high temperature rubber compounds. Additional designs on request.

DYNAMIC CHARACTERISTICS FOR USE AS ISOLATOR

| Pressure [bar] | 3 | 4 | 5 | 6 | 7 | Vol. [l] |
|-------------------------|-------|-------|-------|-------|-------|----------|
| Load [kN] | 166,5 | 222,0 | 277,5 | 333,0 | 388,5 | 80,3 |
| Spring rate [N/mm] | 2.749 | 3.491 | 4.233 | 4.975 | 5.717 | |
| Natural frequency [Hz] | 2,03 | 1,98 | 1,95 | 1,93 | 1,92 | |
| Isolation rate at 10 Hz | 95,7% | 95,9% | 96,0% | 96,1% | 96,2% | |

Values at recommended design height H: 140 mm - - - -

STATIC CHARACTERISTICS FOR USE AS ACTUATOR

| Pressure [bar] | 3 | 4 | 5 | 6 | 7 | Vol. [l] | |
|----------------|-------|-------|-------|-------|-------|----------|------|
| Height H [mm] | 80 | 195,5 | 260,7 | 325,8 | 391,0 | 456,2 | 43,8 |
| | 100 | 188,5 | 251,3 | 314,2 | 377,0 | 439,8 | 57,0 |
| | 120 | 179,0 | 238,7 | 298,3 | 358,0 | 417,7 | 69,0 |
| | 140 | 166,5 | 222,0 | 277,5 | 333,0 | 388,5 | 80,3 |
| | 160 | 151,5 | 202,0 | 252,5 | 303,0 | 353,5 | 90,5 |
| 180 | 133,5 | 178,0 | 222,5 | 267,0 | 311,5 | 100,0 | |

Force values [kN]

All Volume [l] values at 7 bar