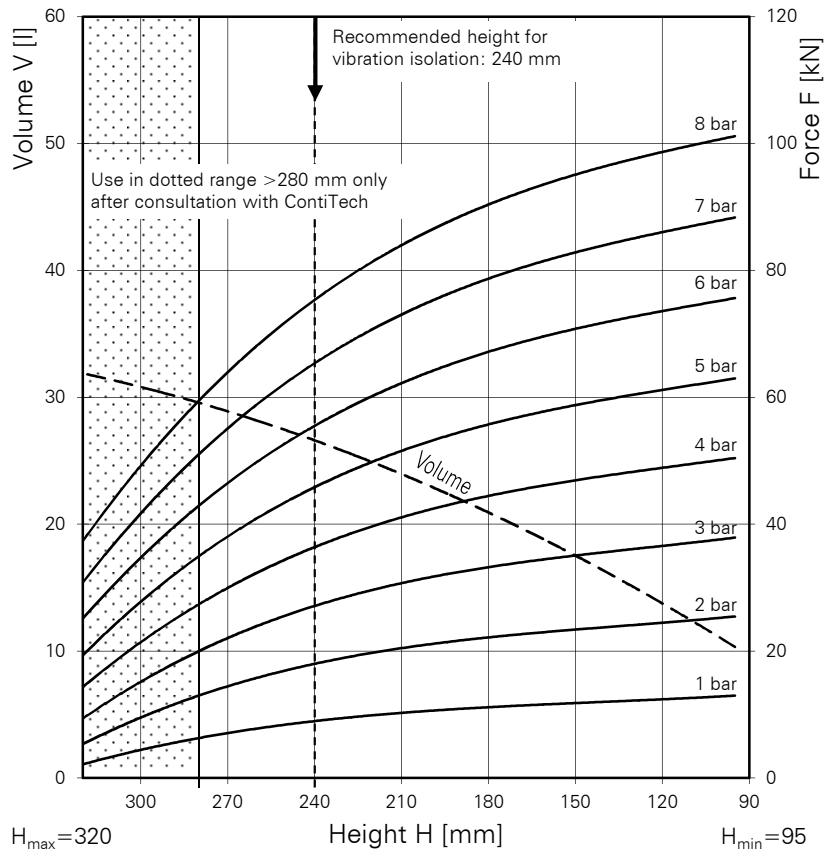
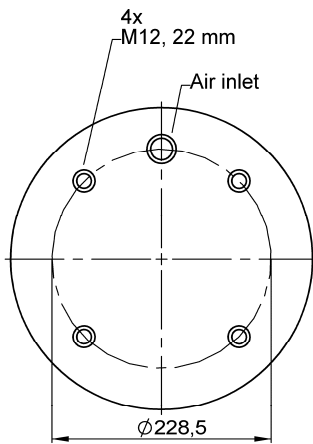
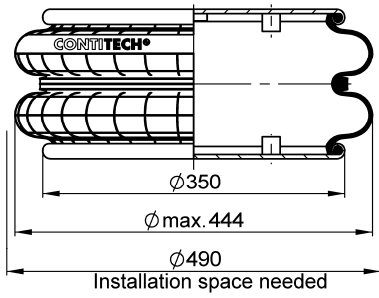


# FD 960-22 CI

# Double Convolution Air Spring



### Purchase order data

|  |           |
|--|-----------|
| Type   | Order No. |
| Rubber bellows only  | 61776     |
| With clamped plates<br>G 3/4 air inlet 114.3 mm<br>eccentric | 69798     |

Additional types on request

### Technical data

|                                    |         |
|------------------------------------|---------|
| Min. pressure                      | 0 bar   |
| Return force to min. height        | ≤ 200 N |
| Overall weight with clamped plates | 18.6 kg |

### Vibration isolation - dynamic characteristic values

Design height H: recommended 240mm, minimum 220mm

| Pressure p [bar]       | 3    | 4    | 5    | 6    | 7    | 8    | Vol V [l] |
|------------------------|------|------|------|------|------|------|-----------|
| Force (Load) [kN]      | 27.0 | 36.3 | 45.7 | 55.4 | 65.3 | 75.3 |           |
| Spring rate [N/cm]     | 3120 | 3955 | 4800 | 5635 | 6485 | 7185 |           |
| Natural frequency [Hz] | 1.7  | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  |           |

### Pneumatic application - static characteristic values

Force F [kN]

| Pressure p [bar] | 3   | 4    | 5    | 6    | 7    | 8    | Vol.[l] |       |
|------------------|-----|------|------|------|------|------|---------|-------|
| Height H [mm]    | 220 | 29.4 | 39.4 | 49.6 | 59.9 | 70.4 |         | 81.1  |
|                  | 200 | 31.4 | 42.1 | 52.8 | 63.8 | 74.9 |         | 86.1  |
|                  | 180 | 33.1 | 44.3 | 55.6 | 67.1 | 78.6 |         | 90.3  |
|                  | 160 | 34.7 | 46.4 | 58.1 | 70.0 | 81.9 |         | 93.9  |
|                  | 140 | 35.9 | 47.9 | 59.9 | 72.1 | 84.3 |         | 96.7  |
|                  | 120 | 36.8 | 49.0 | 61.3 | 73.7 | 86.2 |         | 98.8  |
|                  | 100 | 37.6 | 50.1 | 62.6 | 75.2 | 87.8 |         | 100.7 |

Measuring procedure: Room temperature / Force- height- data quasistatic / Dynamic data at 1 Hz



Service instructions  
M12 = 75 Nm  
G 3/4 = 50 Nm