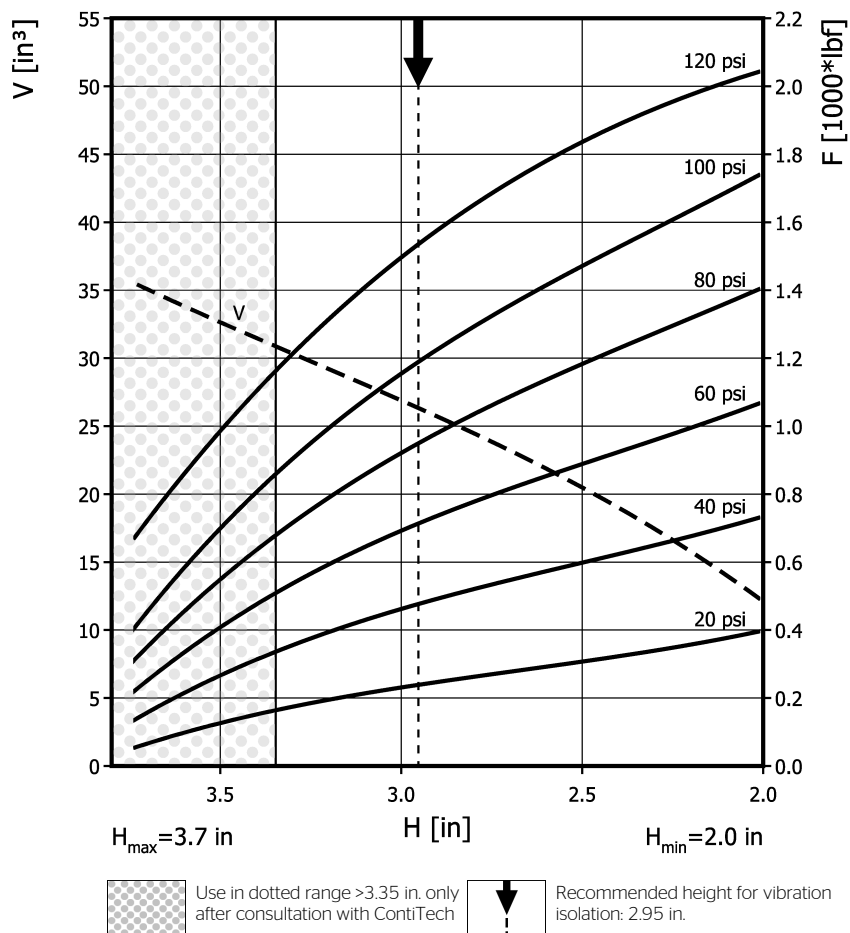
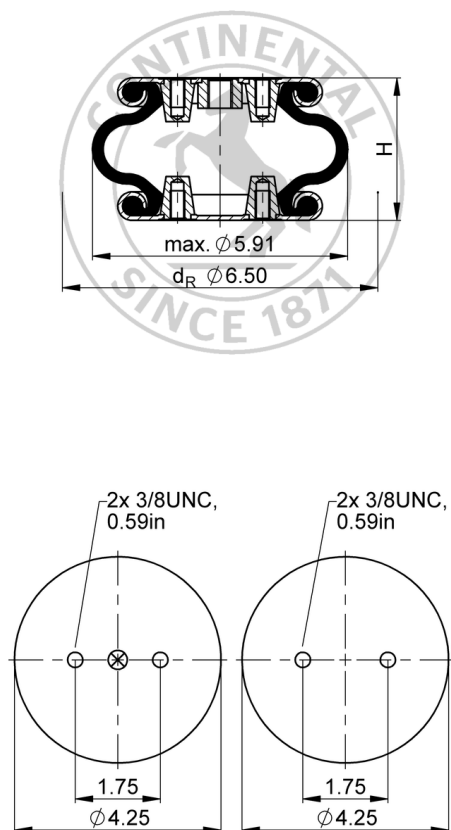


## FS 50-5 CI

## Single Convolution Air Actuator



## Purchase order data

| Type                                                               | Order No. |
|--------------------------------------------------------------------|-----------|
| rubber bellows only                                                | 62242     |
| with crimped plates,<br>1/4 NPT air inlet<br>A = 0 in. excentrical | 75246     |

Additional types on request

## Technical data

|                            |      |     |
|----------------------------|------|-----|
| Min. pressure              | 0    | psi |
| Return force to min height | ≤ 56 | lbf |
| Overall weight             | 2.6  | lb  |

## Vibration isolation - dynamic characteristic values

Design height H: recommended 2.95 inch, minimum 2.56 inch

| Pressure p        | [psi]     | 40  | 60   | 80   | 100  | 120  | Vol. V [in³] |
|-------------------|-----------|-----|------|------|------|------|--------------|
| Force (Load)      | [lbf]     | 479 | 699  | 947  | 1170 | 1420 | 26.2         |
| Spring rate       | [lbf/in.] | 807 | 1120 | 1420 | 1710 | 1950 |              |
| Natural frequency | [Hz]      | 3.9 | 3.8  | 3.7  | 3.6  | 3.6  |              |

## Pneumatic application - static characteristic values

Force F [lbf]

| Pressure p     | [psi] | 40  | 60  | 80   | 100  | 120  | Vol. V [in³] |
|----------------|-------|-----|-----|------|------|------|--------------|
| Height H [in.] | 3.3   | 371 | 567 | 748  | 950  | 1140 | 29           |
|                | 3.0   | 459 | 689 | 913  | 1150 | 1380 | 27           |
|                | 2.8   | 537 | 794 | 1060 | 1330 | 1580 | 24           |
|                | 2.5   | 605 | 882 | 1180 | 1470 | 1760 | 20           |
|                | 2.3   | 665 | 970 | 1300 | 1610 | 1920 | 17           |



Service instructions  
3/8-16 UNC: max. 20 lbf ft  
1/4 NPT: max. 20 lbf ft

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