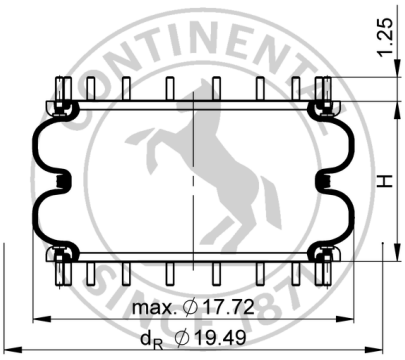
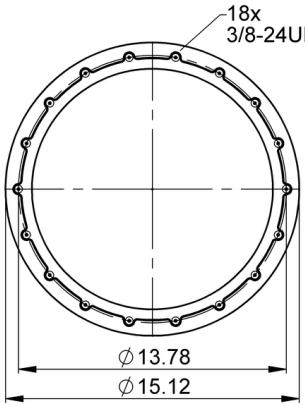
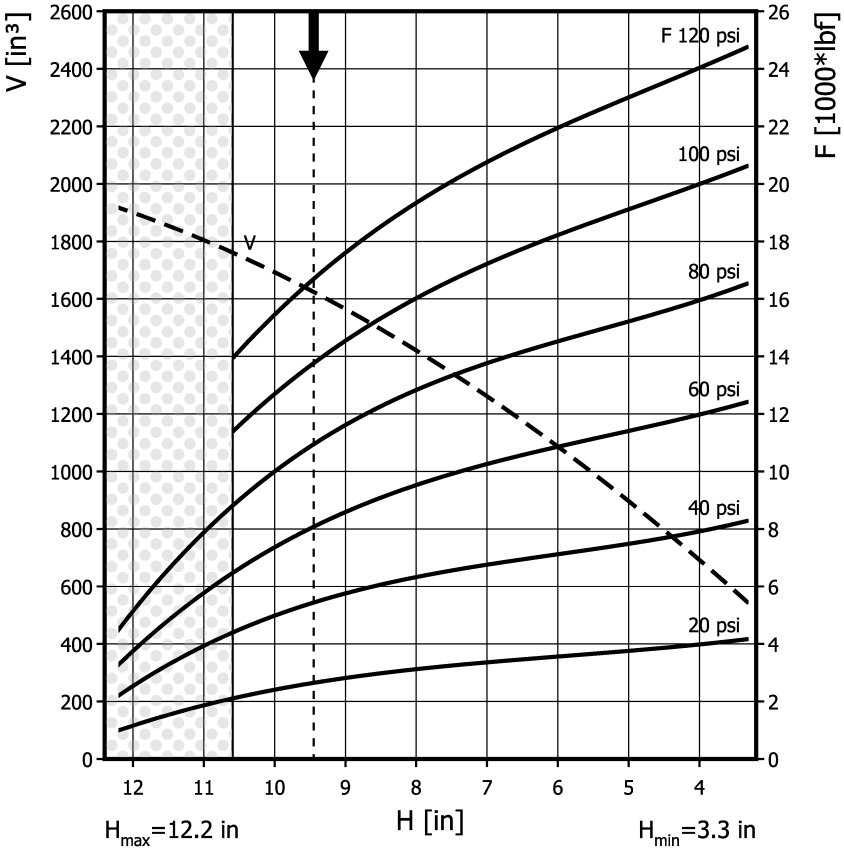
ContiTech

# FD 960-22 RS Double Convolution Air Actuator




Use in dotted range >10.60 in. only after consultation with ContiTech

Recommended height for vibration isolation: 9.45 in.

## Purchase order data

| Type | Order No. |
|---|---|
| rubber bellows only | 61776 |
| with bead rings, 1 7/8in bolts, nuts and washers | 65890 |

Additional types on request

Service instructions
3/8-24 UNF: max. 30 lbf ft

## Technical data

| | | |
|---|---|---|
| Min. pressure | 0 | psi |
| Return force to min height | ≤ 45 | lbf |
| Overall weight | 19 | lb |

**Vibration isolation - dynamic characteristic values**

Design height H: recommended 9.45 inch, minimum 8.66 inch

| Pressure p | [psi] | 40 | 60 | 80 | 100 | 120 | Vol. V [in.³] |
|---|---|---|---|---|---|---|---|
| Force (Load) | [lbf] | 5740 | 8230 | 11300 | 14000 | 16600 | 1620 |
| Spring rate | [lbf/in.] | 1670 | 2290 | 2970 | 3640 | 4310 | |
| Natural frequency | [Hz] | 1.7 | 1.7 | 1.6 | 1.6 | 1.6 | |

**Pneumatic application - static characteristic values**

Force F [lbf]

| Pressure p | [psi] | 40 | 60 | 80 | 100 | 120 | Vol. V [in.³] |
|---|---|---|---|---|---|---|---|
| Height H [in.] | 9.0 | 5710 | 8560 | 11600 | 14500 | 17600 | 1600 |
| | 8.0 | 6300 | 9440 | 12800 | 16000 | 19400 | 1400 |
| | 7.0 | 6690 | 10200 | 13700 | 17200 | 20700 | 1300 |
| | 6.0 | 7130 | 10800 | 14500 | 18200 | 21900 | 1100 |
| | 5.0 | 7570 | 11400 | 15200 | 19100 | 23000 | 900 |
| | 4.0 | 7960 | 12100 | 16000 | 20000 | 24100 | 690 |

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