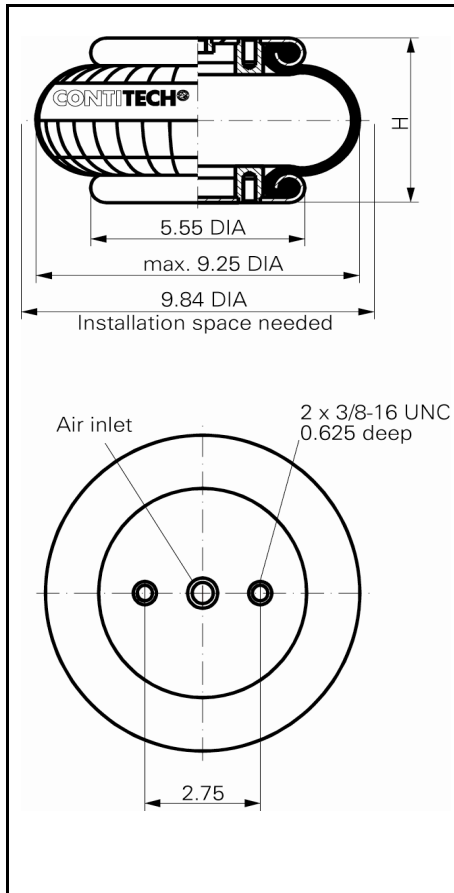
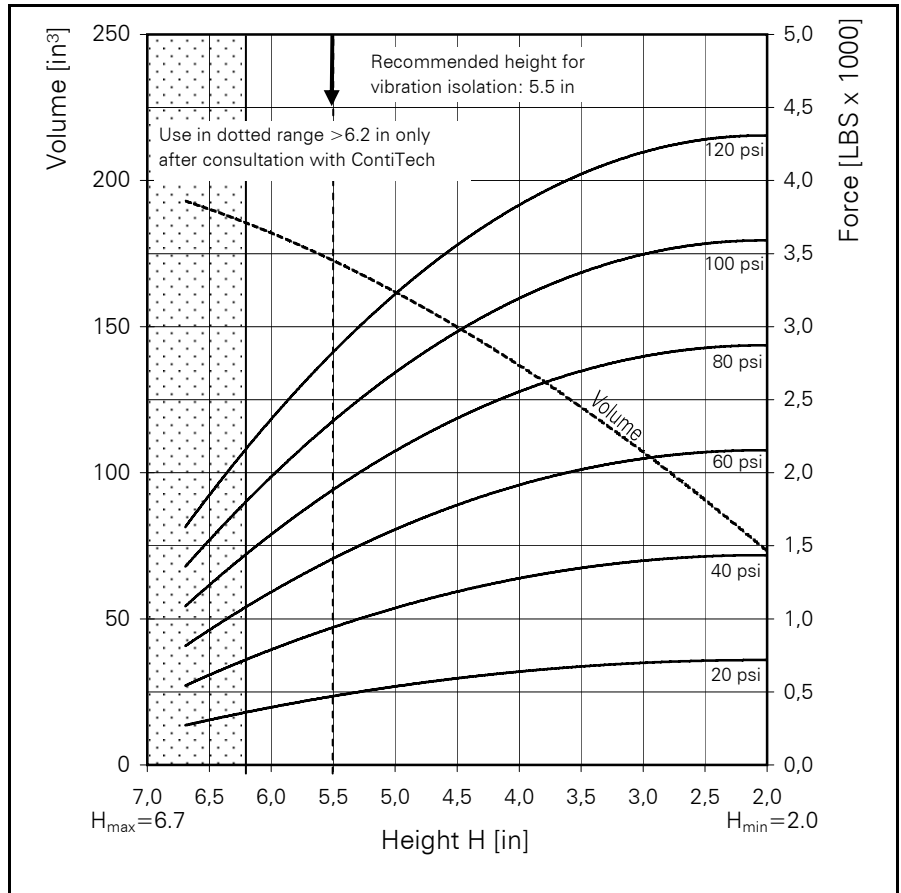


**FS 120-12**

**CONTI® Single Convolution Air Spring**



FS 120-12



Force-height diagram

**Purchase order data**

Type	Order No.
Rubber bellows only	61874
With clamped plates 1/4 NPT air inlet	on request
With clamped plates 3/4 NPT air inlet	on request

Additional types on request

**Technical data**

Min. pressure	0 psi
Return force to min. height	≤ 45 lbs
Overall weight with clamped plates	4.2 lbs

**Vibration isolation - dynamic characteristic values**


Design height H: recommended 5.5 inch, minimum 4.92 inch

Pressure p [psi]	40	60	80	100	120		Vol. V [in <sup>3</sup> ]
Force (Load) [lbs]	950	1420	1890	2370	2840		173
Spring rate [lbs/in]	609	856	1090	1294	1524		
Natural frequency [Hz]	2.5	2.4	2.4	2.3	2.3		

**Pneumatic application - static characteristic values**

Force F [lbs]

Pressure p [psi]	20	40	60	80	100	120	Vol [in <sup>3</sup> ]	
Height H [in]	6.0	400	790	1190	1580	1980	2370	181
	5.5	470	950	1420	1890	2370	2840	173
	5.0	540	1080	1610	2150	2690	3230	162
	4.5	590	1180	1770	2360	2960	3550	150
	4.0	640	1280	1910	2550	3190	3830	136
	3.5	670	1340	2020	2690	3360	4030	122
	3.0	700	1390	2090	2790	3490	4180	107

 Service instructions  
 3/8-16 UNC = 15-20 LBxFT  
 3/4 NPT = 40-50 LBxFT