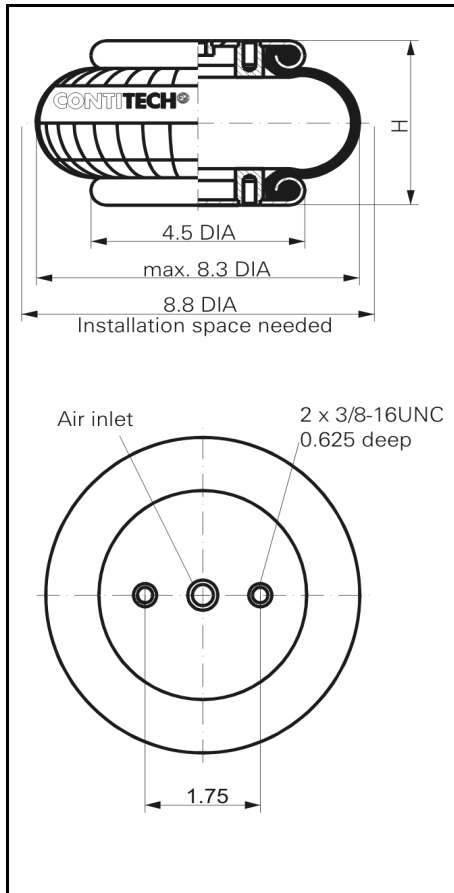
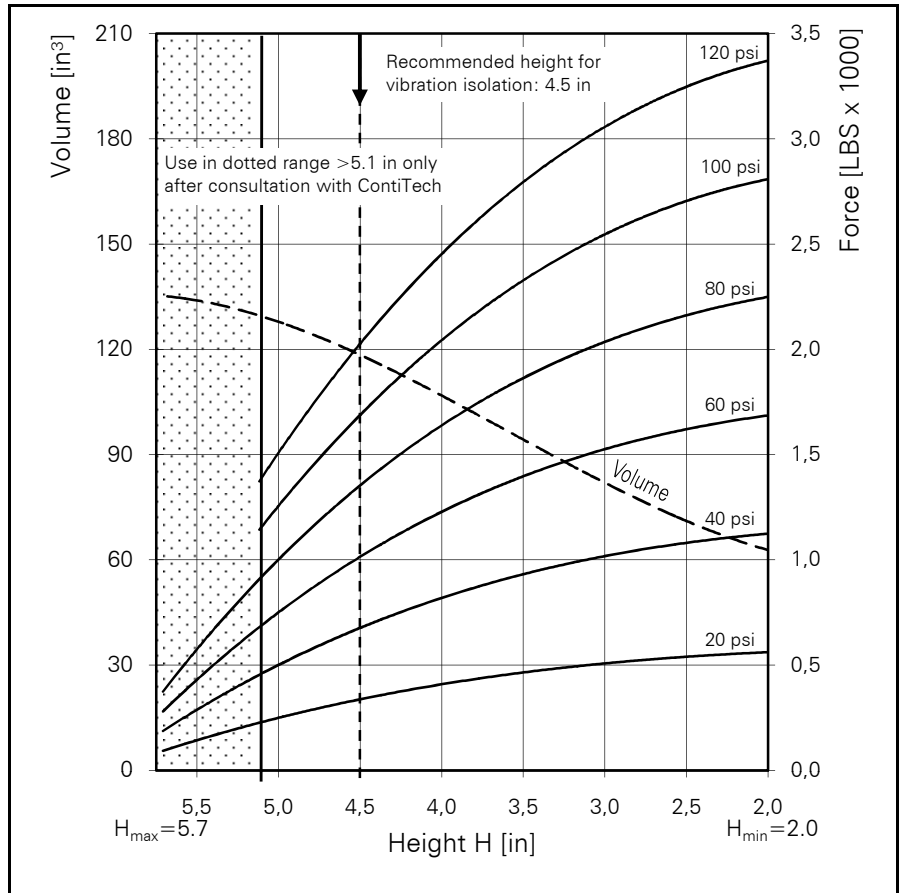


FS 100-10

CONTI® Single Convolution Air Spring



FS 100-10



Force-height diagram

Purchase order data

Type	Order No.
Rubber bellows only	63457
With clamped plates 1/4 NPT air inlet	65529
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	≤ 9 lbs
Overall weight with clamped plates	3.1 lbs

Vibration isolation - dynamic characteristic values

Design height H: recommended 4.5 inch, minimum 4.0 inch

Pressure p [psi]	40	60	80	100	120		Vol. V [in <sup>3</sup> ]
Force (Load) [lbs]	670	1010	1350	1680	2020		118
Spring rate [lbs/in]	518	749	982	1201	1428		
Natural frequency [Hz]	2.8	2.7	2.7	2.7	2.6		

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]	5.0	250	500	750	1000	1250	1500	128
	4.5	340	670	1010	1350	1680	2020	118
	4.0	410	820	1230	1640	2050	2460	107
	3.5	460	930	1390	1850	2320	2780	95
	3.0	510	1020	1530	2030	2540	3050	82
	2.5	540	1080	1620	2160	2710	3250	70
	2.0	560	1120	1680	2240	2800	3370	64



Service instructions

3/8-16 UNC = 15-20 LBxFT

1/4 NPT = 12-15 LBxFT