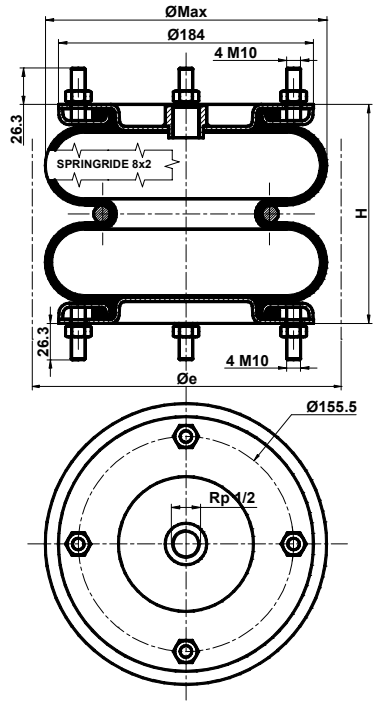
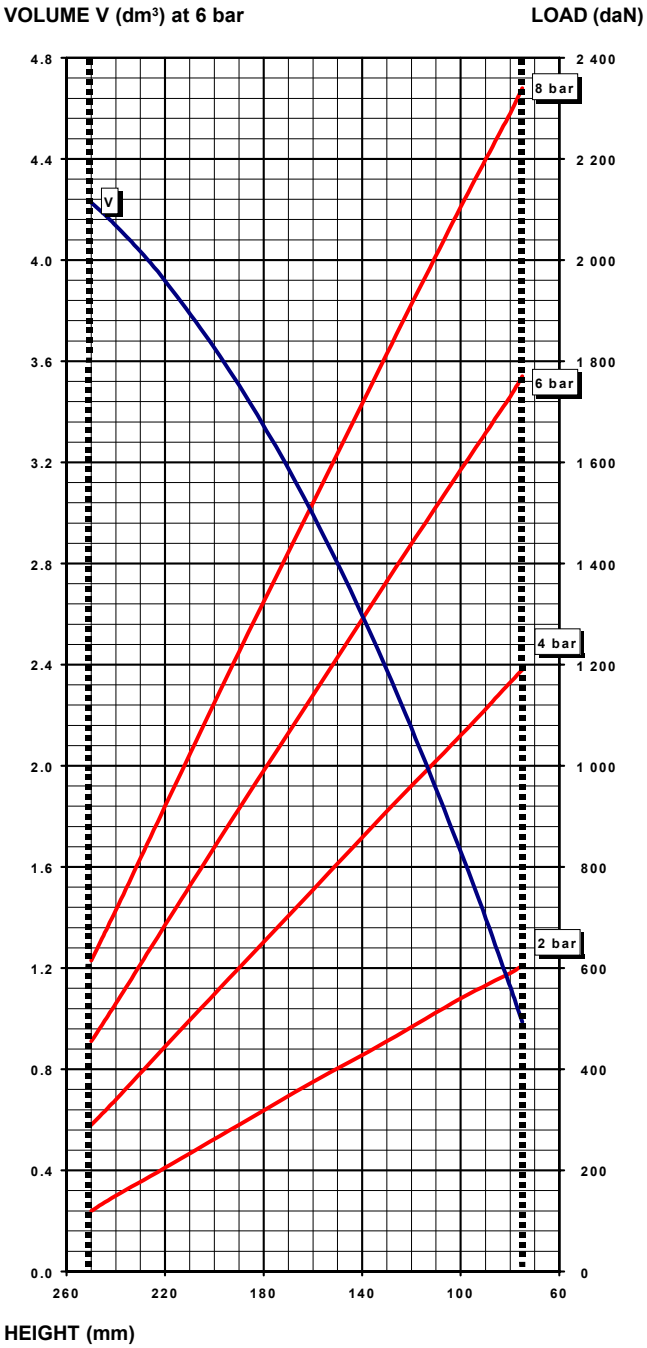
BELLOWS 8" x 2



ASSEMBLED WITH 8 NUTS Hu10 AND 8 WASHERS GROWER WZ10.
FASTENING TORQUE 25 Nm

Heights (mm) (H)			Stroke (mm)
Maximum	Minimum	Design	
250	75	160	175
Diameters (mm)			Weight (kg)
Ø MAX	Overall		
220	245		3.7

Rubber Bellow	Features	Part Numbers
Standard	-Rubber Only	SP 253
-40 to 70°C	-Assembled Bellows	**SP1490**
Butyl	-Rubber Only	SP1160
-25 to 90°C	-Assembled Bellows	**SP1651**
Epichlore	-Rubber Only	SP2193
-20 to 115°C	-Assembled Bellows	**SP2322**



- Indicative value of force required to reach minimum height at atmospheric pressure : 25 daN

- Maximum pressure : 8 bar

- The datas presented on this document are liable to evolution and don't constitute a commitment from DUNLOP AIRSPRINGS (see page 5-7).

BELLOWS 8" x 2

FOR USE AS A PNEUMATIC ACTUATOR

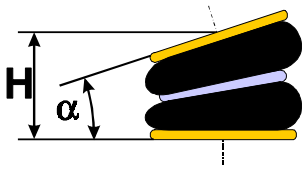
CHARACTERISTICS IN STATIC CONDITION				
HEIGHT (mm)	LOAD (daN)			
	Pressure 2 bar	Pressure 4 bar	Pressure 6 bar	Pressure 8 bar
75	605	1190	1765	2340
100	540	1060	1585	2105
130	455	910	1365	1815
160	375	755	1140	1520
190	290	600	915	1225
220	205	445	685	920
250	120	290	445	615

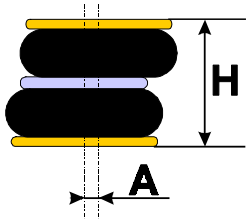
ANGULAR CAPABILITY

Maximum (α)	For H between	
	H mini (mm)	H maxi (mm)
10°	90	210
15°	100	205
20°	110	200
25°	115	190

OUT OF ALIGNMENT

Maximum (A) (mm)	For H between	
	H mini (mm)	H maxi (mm)
10	95	230
20	95	220
30	115	210
40	130	195





- Airsprings must not be pressurised unless they are restricted by an outside frame or by a suitable load.
- Strokes must be limited by the direct use of bump stops or external stops.
- When stacking airsprings, special cares must be taken to ensure the airsprings are guided and fixed.
- An Airspring is a single acting air actuator and must not be used below atmospheric pressure.
- Please check the over-pressure in case of quick compression.

- The datas presented on this document are liable to evolution and don't constitute a commitment from DUNLOP AIRSPRINGS (see page 5-7).

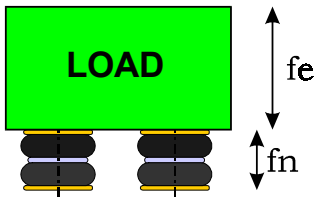
FOR USE AS AN ISOLATOR

DYNAMIC CHARACTERISTICS AT H= 200 mm *				
	Pressure 2 bar	Pressure 4 bar	Pressure 6 bar	Pressure 8 bar
LOAD (daN)	265	545	840	
VOLUME (dm^3)	3.42	3.54	3.66	
STIFFNESS (daN/cm)	48.8	88.2	128.1	
NATURAL FREQUENCY (Hz)	2.15	2.00	1.95	
ISOLATION RATE at 10 Hz	95.2%	95.8%	96.1%	

* Recommanded height for better isolation.

- Isolation rate is given by the formula :

$$I = 1 - \frac{1}{\left(\frac{fe}{fn}\right)^2 - 1}$$



fe = Exciting frequency (Hz)
fn = Airspring natural frequency (Hz)