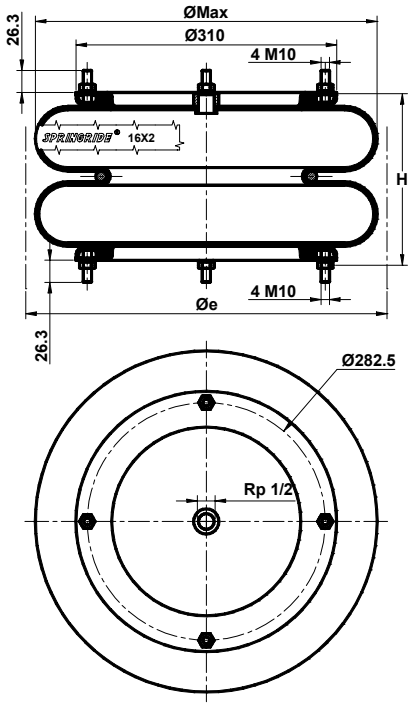
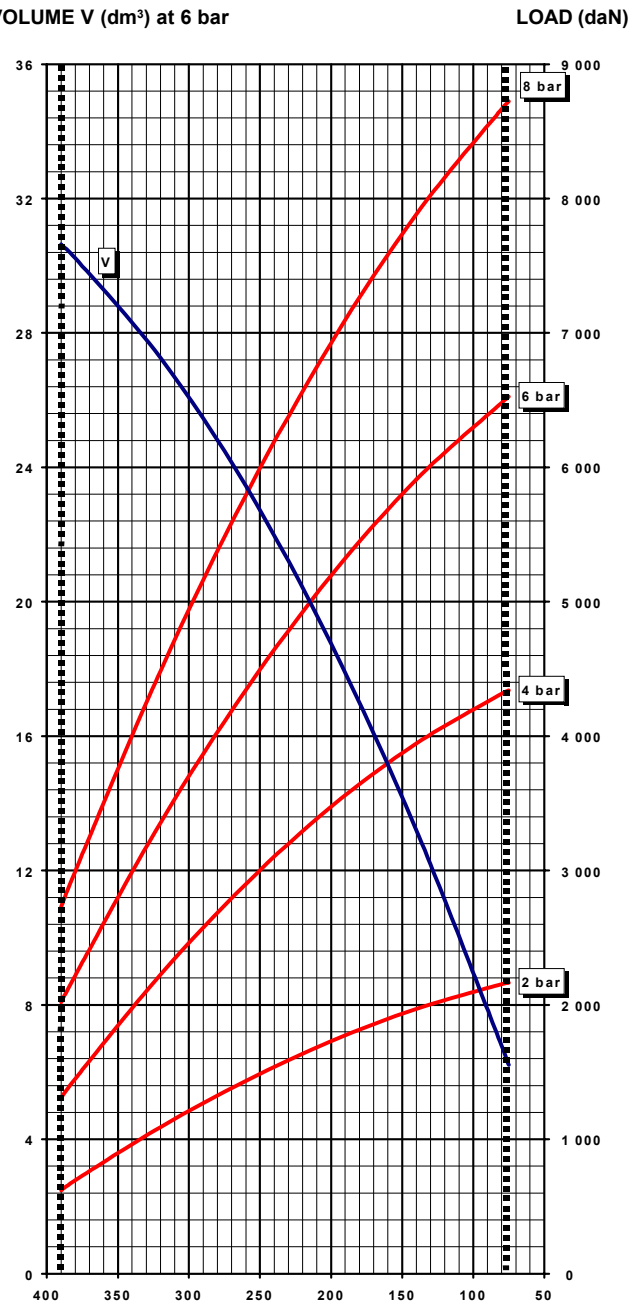
BELLOWS 16" x 2



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

Heights (mm) (H)			Stroke (mm)
Maximum	Minimum	Design	
390	75	200	315
Diameters (mm)			Weight (kg)
Ø MAX	Overall		
440	460		9.5

Rubber Bellow	Features	Part Numbers
Standard	-Rubber Only	SP1129
-40 to 70°C	-Assembled Bellows 4 studs	**SP1557**
Butyl	-Rubber Only	SP1372
-25 to 90°C	-Assembled Bellows 4 studs	**SP1741**
Epichlore	-Rubber Only	SP2461
-20 to 115°C	-Assembled Bellows 4 studs	**SP2602**



- Indicative value of force required to reach minimum height at atmospheric pressure : 9 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 16" x 2

FOR USE AS A PNEUMATIC ACTUATOR

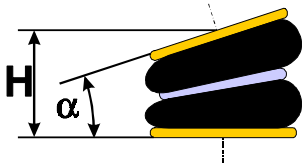
CHARACTERISTICS IN STATIC CONDITION				
HEIGHT (mm)	LOAD (daN)			
	Pressure 2 bar	Pressure 4 bar	Pressure 6 bar	Pressure 8 bar
75	2165	4340	6525	8725
110	2070	4140	6215	8295
150	1930	3875	5800	7735
200	1730	3475	5195	6925
260	1435	2900	4345	5795
320	1090	2225	3355	4485
390	620	1310	2020	2730

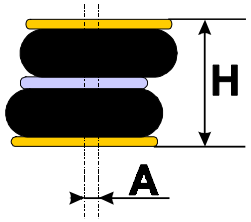
ANGULAR CAPABILITY

Maximum (α)	For H between H mini (mm)	H maxi (mm)
10°	125	350
15°	150	340
20°	185	325
25°	225	310

OUT OF ALIGNMENT

Maximum (A) (mm)	For H between H mini (mm)	H maxi (mm)
10	180	380
20	205	375
30	225	365
40	245	355





- 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).

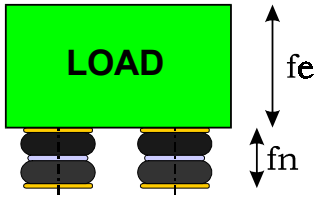
FOR USE AS AN ISOLATOR

DYNAMIC CHARACTERISTICS AT H= 290 mm *				
	Pressure 2 bar	Pressure 4 bar	Pressure 6 bar	Pressure 8 bar
LOAD (daN)	1270	2575	3865	
VOLUME (dm^3)	24.25	24.85	25.46	
STIFFNESS (daN/cm)	126	228	323	
NATURAL FREQUENCY (Hz)	1.57	1.48	1.44	
ISOLATION RATE at 10 Hz	97.5%	97.8%	97.9%	

* 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)