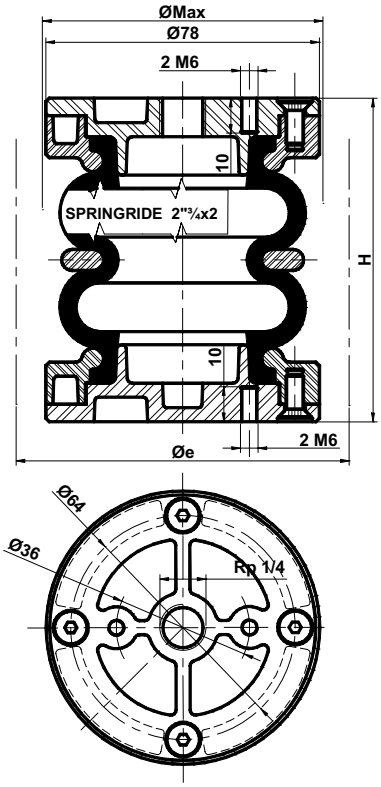
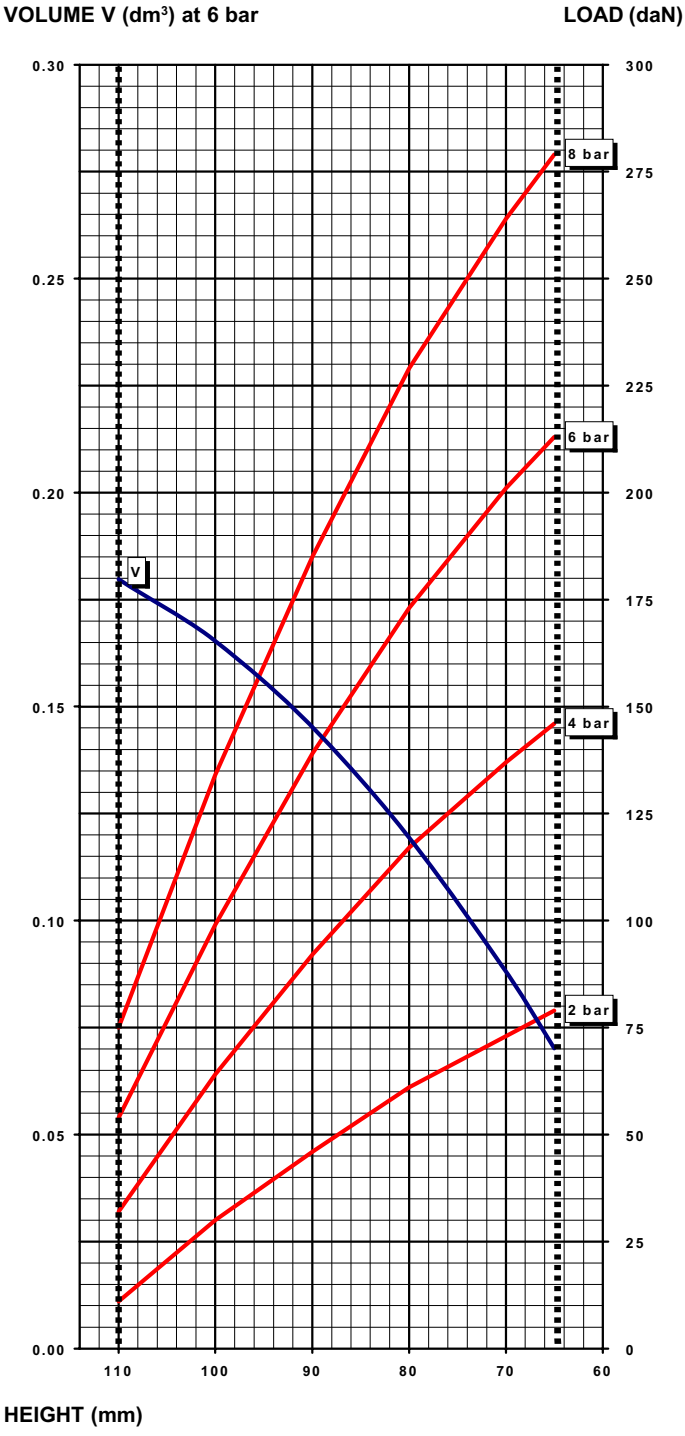
BELLOWS 2¾" x 2 ALUMINIUM



ASSEMBLED WITH 2x4 SCREWS F HC M5 - 12.
FASTENING TORQUE 5 Nm

Heights (mm) (H)			Stroke (mm)
Maximum	Minimum	Design	
110	65	90	45
Diameters (mm)			Weight (kg)
Ø MAX	Overall		
80	95		0.40

Rubber Bellow	Features	Part Numbers
Standard	-Rubber Only	SP2041
-40 to 70°C	-Assembled Bellows	**SP2907**
Butyl	-Rubber Only	SP2090
-25 to 90°C	-Assembled Bellows	**SP2908**



- Indicative value of force required to reach minimum height at atmospheric pressure : 31 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 2¾" x 2 ALUMINIUM

FOR USE AS A PNEUMATIC ACTUATOR

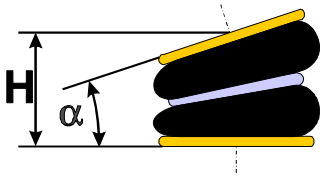
CHARACTERISTICS IN STATIC CONDITION				
HEIGHT (mm)	LOAD (daN)			
	Pressure 2 bar	Pressure 4 bar	Pressure 6 bar	Pressure 8 bar
65	79	146	213	279
80	61	117	173	229
90	46	92	139	185
100	30	64	99	134
110	11	32	54	75

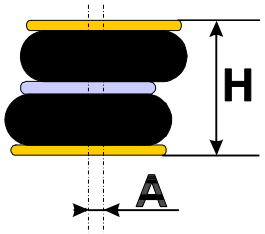
ANGULAR CAPABILITY

Maximum (α)	For H between	
	H mini (mm)	H maxi (mm)
5°	75	100
10°	80	95

OUT OF ALIGNMENT

Maximum (A) (mm)	For H between	
	H mini (mm)	H maxi (mm)
5	80	100
10	85	95





- 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).

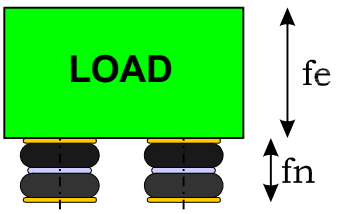
FOR USE AS AN ISOLATOR

DYNAMIC CHARACTERISTICS AT H= 90 mm *				
	Pressure 2 bar	Pressure 4 bar	Pressure 6 bar	Pressure 8 bar
LOAD (daN)	45	90	140	
VOLUME (dm^3)	0.135	0.140	0.145	
STIFFNESS (daN/cm)	31.7	52.5	72.5	
NATURAL FREQUENCY (Hz)	4.14	3.76	3.60	
ISOLATION RATE at 10 Hz	79.3%	83.6%	85.1%	

* 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)