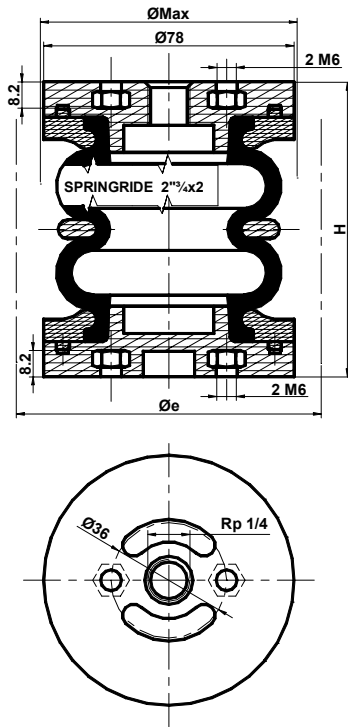


# BELLOWS 2<sup>3</sup>/<sub>4</sub>" x 2 COMPOSITE

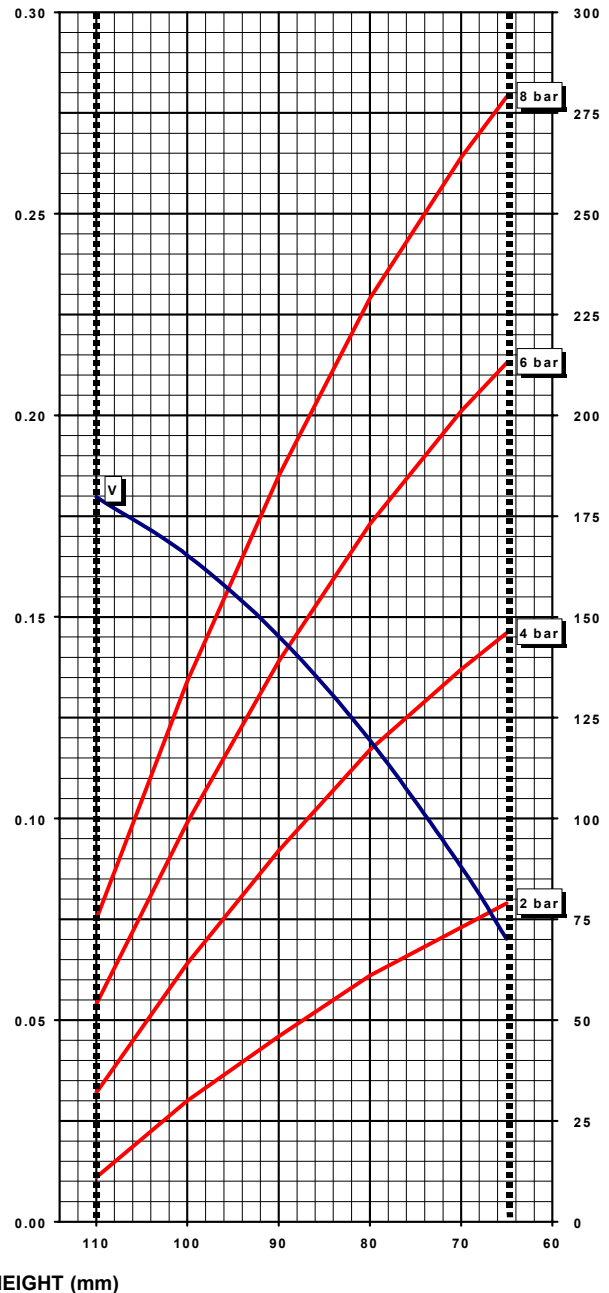


CANNOT BE DISMOUNTED, CLAMPING RINGS AND PLATES ARE ASSEMBLED BY SOLDERING. FASTENING TORQUE 5 Nm

Heights (mm) (H)			Stroke (mm)
Maximum	Minimum	Design	
110	65	90	45
Diameters (mm)			Weight (kg)
Ø MAX	Overall		
80	95		0.26

Rubber Bellow	Features	Part Numbers
<b>Standard</b> -40 to 70°C	-Assembled Bellows	SP2042
<b>Butyl</b> -25 to 90°C	-Assembled Bellows	SP2094

VOLUME V (dm<sup>3</sup>) at 6 bar      LOAD (daN)



- 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 COMPOSITE**

**FOR USE AS A PNEUMATIC ACTUATOR**

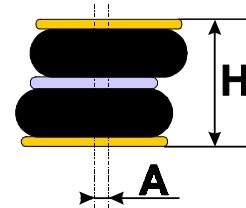
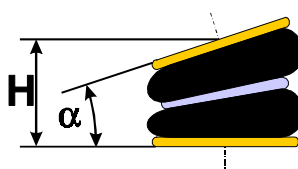
CHARACTERISTICS IN STATIC CONDITION				
HEIGHT (mm)	LOAD (daN)			
	Pressure 2 bar	Pressure 4 bar	Pressure 6 bar	Pressure 8 bar
65	79	146	213	279
80	61	117	173	229
90	46	92	139	185
100	30	64	99	134
110	11	32	54	75

**ANGULAR CAPABILITY**

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

**OUT OF ALIGNMENT**

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



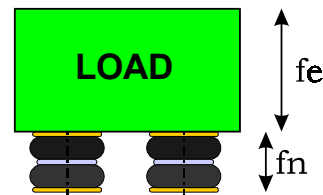
- Airsprings must not be pressurised unless they are restricted by an outside frame or by a suitable load.
- Strokes must be limited by the direct use of bump stops or external stops.
- When stacking airsprings, special cares must be taken to ensure the airsprings are guided and fixed.
- An Airspring 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 (dm³)	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%	

- Isolation rate is given by the formula :

$$I = 1 - \frac{1}{\left(\frac{f_e}{f_n}\right)^2 - 1}$$



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

\* Recommended height for better isolation.