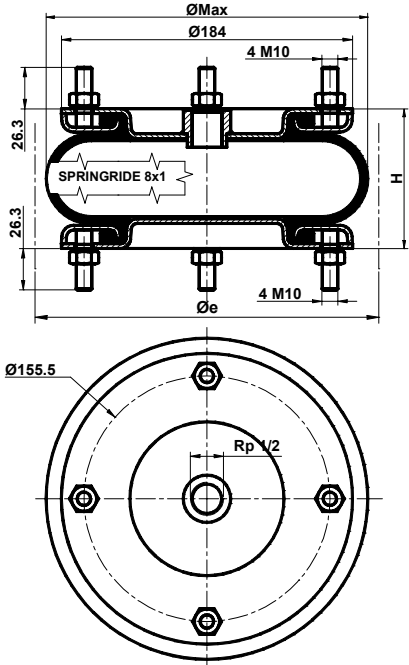


BELLOWS 8" x 1



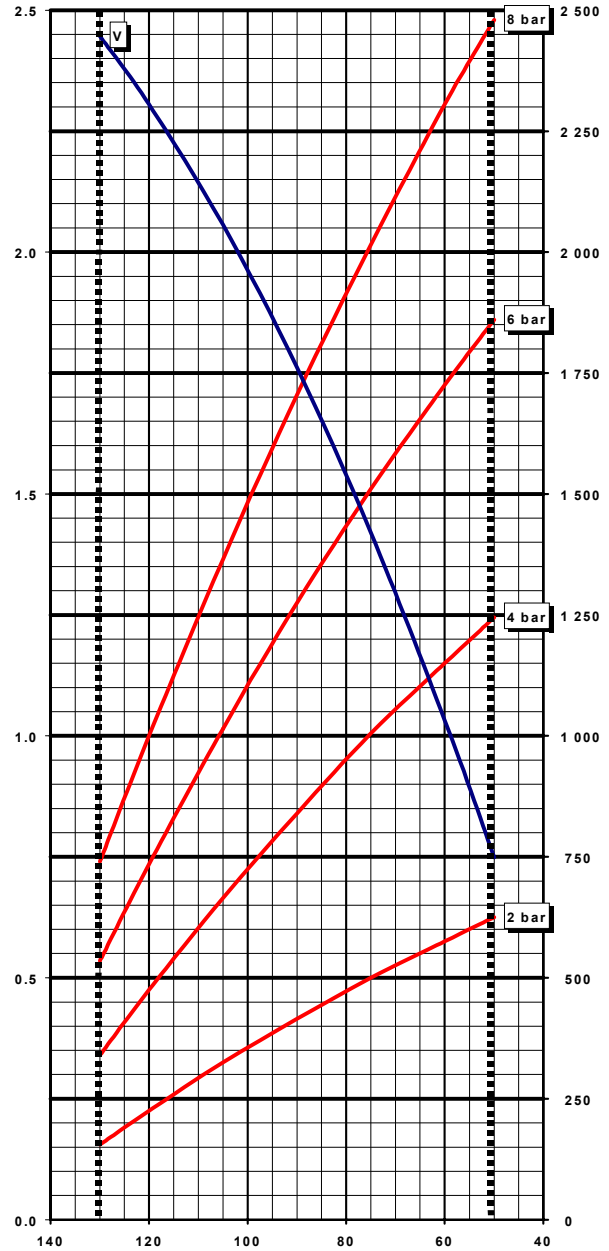
ASSEMBLED WITH 8 NUTS Hu10 AND 8 WASHERS GROWER WZ10.
FASTENING TORQUE 25 Nm

Heights (mm) (H)			Stroke (mm)
Maximum	Minimum	Design	
130	50	90	80
Diameters (mm)			Weight (kg)
Ø MAX	Overall		
230	245		3.00

Rubber Bellow	Features	Part Numbers
Standard	-Rubber Only	SP1218
-40 to 70°C	-Assembled Bellows	SP1537
Butyl	-Rubber Only	SP1088
-25 to 90°C	-Assembled Bellows	SP1638
Epichlore	-Rubber Only	SP2584
-20 to 115°C	-Assembled Bellows	SP2585

VOLUME V (dm³) at 6 bar

LOAD (daN)



HEIGHT (mm)

- Indicative value of force required to reach minimum height at atmospheric pressure : 12 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 1

FOR USE AS A PNEUMATIC ACTUATOR

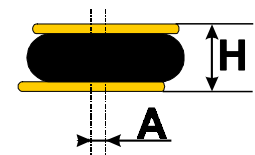
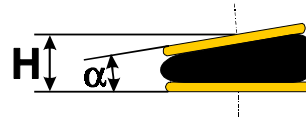
CHARACTERISTICS IN STATIC CONDITION				
HEIGHT (mm)	LOAD (daN)			
	Pressure 2 bar	Pressure 4 bar	Pressure 6 bar	Pressure 8 bar
50	625	1245	1860	2480
60	575	1150	1725	2305
75	500	1005	1510	2015
90	415	840	1275	1705
105	325	665	1015	1365
120	225	475	735	1000
130	155	340	535	740

ANGULAR CAPABILITY

Maximum (α)	For H between	
	H mini (mm)	H maxi (mm)
5°	60	105
10°	70	100

OUT OF ALIGNMENT

Maximum (A)	For H between	
	H mini (mm)	H maxi (mm)
10	65	115
20	70	95



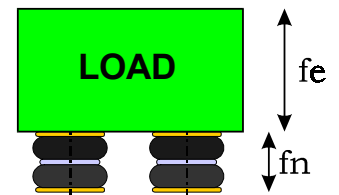
- Airsprings must not be pressurised unless they are restricted by an outside frame or by a suitable load.
- Strokes must be limited by the direct use of bump stops or external stops.
- When stacking airsprings, special cares must be taken to ensure the airsprings are guided and fixed.
- An Airspring 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= 100 mm *				
	Pressure 2 bar	Pressure 4 bar	Pressure 6 bar	Pressure 8 bar
LOAD (daN)	355	725	1105	
VOLUME (dm³)	1.83	1.90	1.96	
STIFFNESS (daN/cm)	134.0	237.9	342.1	
NATURAL FREQUENCY (Hz)	3.05	2.86	2.77	
ISOLATION RATE at 10 Hz	89.7%	91.1%	91.7%	

- 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.