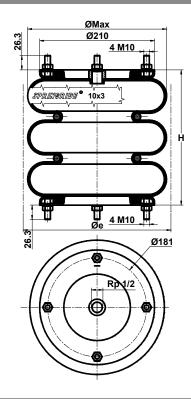


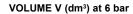
# BELLOWS 10" x 3



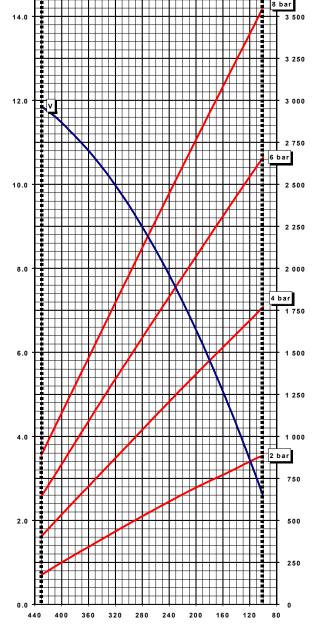
ASSEMBLED WITH 8 NUTS Hu10 AND 8 WASHERS GROWER WZ10.
FASTENING TORQUE 25 Nm

Heights (mm) (H)			Stroke	
Maximum	Minimum	Design	(mm)	
430	100	250	330	
Diameters (mm)			Weight	
Ø MAX	Overall		(kg)	
270	300		5.9	

Rubber Bellow	Features	Part Numbers	
Standard	-Rubber Only	SP 258	
-40 to 70°C	-Assembled Bellows	SP1539	
<u>Butyl</u>	-Rubber Only	SP1480	
-25 to 90°C	-Assembled Bellows	SP1669	
<u>Epichlore</u>	-Rubber Only	SP2552	
-20 to 115°C	-Assembled Bellows	SP2732	







- HEIGHT (mm)
- Indicative value of force required to reach minimum height at atmospheric pressure: 19 daN
- Maximum pressure: 8 bar
- The datas presented on this document are liable to evolution and don't constitute a commitment from DUN-LOP AIRSPRINGS (see page 5-7).



## BELLOWS 10" x 3

# FOR USE AS A PNEUMATIC ACTUATOR

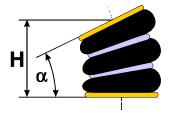
#### **CHARACTERISTICS IN STATIC CONDITION** LOAD (daN) HEIGHT (mm) Pressure Pressure Pressure Pressure 2 bar 4 bar 6 bar 8 bar 100 885 1770 2660 3555 150 790 1570 2370 3160 200 695 1370 2070 2765 250 590 1165 1770 2365 310 460 915 1400 1880 370 320 660 1025 1385 430 175 405 645 890

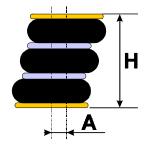
### **ANGULAR CAPABILITY**

Maximum	For H between		
(α)	H mini H maxi		
	(mm)	(mm)	
5°	185	390	
10°	245	370	
15°	280	350	

#### **OUT OF ALIGNMENT**

Maximum	For H between		
(A)	H mini H maxi		
(mm)	(mm)	(mm)	
10	165	390	
20	200	380	
30	220	365	
40	230	350	
50	240	345	





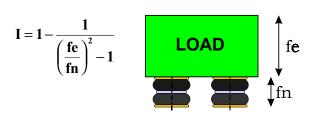
- Airsprings must not be pressurised unless they are restricted by an outside frame or by a suitable load.
- Strokes must be limited by the direct use of bump stops or external stops.
- When stacking airsprings, special cares must be taken to ensure the airsprings are guided and fixed.
- An Airspring 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= 320 mm *	
	Pressure 2 bar	Pressure 4 bar	Pressure 6 bar	Pressure 8 bar
LOAD ( daN )	435	875	1340	
VOLUME ( dm³ )	9.32	9.65	9.98	
STIFFNESS ( daN/cm )	44	76	110	
NATURAL FREQUENCY ( Hz )	1.58	1.47	1.43	
ISOLATION RATE at 10 Hz	97.4%	97.8%	97.9%	

<sup>\*</sup> Recommanded height for better isolation.

### - Isolation rate is given by the formula:



fe = Exciting frequency (Hz)

fn = Airspring natural frequency (Hz)

Warning: 3 convolutions bellows are laterally instable, when used as isolators,

they need special guides.