

BELLOWS 4¹/₂" x 2 ALUMINIUM



ASSEMBLED WITH 2x3 SCREWS Fhc/90 M6x100 LENGTH 12mm FASTENING TORQUE 5 Nm						
	Hei	ghts (mm)	Stroke			
	Maximum	(mm)				
	150	65	100	85		
	Di	Diameters (mm)				
	Ø MAX	Ove	(kg)			
	125	14	0.95			

Rubber Bellow	Features	Part Numbers	
<u>Standard</u>	Standard -Rubber Only		
-40 to 70°C -Assembled Bellows		SP2441	
<u>Butyl</u>	-Rubber Only	SP1517	
-25 to 90°C	-Assembled Bellows	SP2474	
Epichlore -Rubber Only		SP2179	
-20 to 115°C	-Assembled Bellows	SP2588	



HEIGHT (mm)

- Indicative value of force required to reach minimum height at atmospheric pressure : 24 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).

SPRINGRIDE[®]

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FOR USE AS A PNEUMATIC ACTUATOR

CHARACTERISTICS IN STATIC CONDITION						
	LOAD (daN)					
(mm)	Pressure 2 bar	Pressure 4 bar	Pressure 6 bar	Pressure 8 bar		
65	200	385	575	765		
80	170	335	500	665		
90	150	300	450	600		
100	130	265	400	535		
120	95	200	305	410		
140	60	135	215	290		
150	45	105	170	235		

ANGULAR CAPABILITY

Maximum	For H between		
(α)	H mini H maxi		
	(mm)	(mm)	
5°	75	130	
10°	80	125	
15°	90	120	
20°	100	115	

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Maximum	For H between			
(A)	H mini H maxi			
(mm)	(mm)	(mm)		
5	85	135		
10	95	130		
15	110	125		



- 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.

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DYNAMIC CHAF	H= 130 mm [*]					
	Pressure 2 bar	Pressure 4 bar	Pressure 6 bar	Pressure 8 bar		
LOAD (daN)	75	170	260			
VOLUME (dm³)	0.628	0.655	0.683			
STIFFNESS (daN/cm)	26.5	49.5	71.4			
NATURAL FREQUENCY (Hz)	2.94	2.71	2.62			
ISOLATION RATE at 10 Hz	90.6%	92.1%	92.6%			

FOR USE AS AN ISOLATOR

- Isolation rate is given by the formula :

$$I = 1 - \frac{1}{\left(\frac{fe}{fn}\right)^2 - 1}$$
LOAD
$$fe$$

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

* Recommanded height for better isolation.