

DUNLOP Type Air Springs

The DUNLOP Type Air Springs are designed and intended for the spring mounting of road and railway vehicles. They are also used for the resilient mounting of shock-creating and vibrating devices such as forging presses, power hammers, textile looms, conveyors, etc. They are suitable for insulation of laboratory devices from vibrations. They are also recommended for the resilient mounting of trailers and recreational vehicles. Other applications should be discussed with the manufacturer.

The complete DUNLOP Type Air Spring consists of a corrugated body made of rubberized fabric and reinforcing steel rings. The body is sealed with flanges. One of the flanges is provided with an air-intake branch. The flanges must be coaxial and are designed to be attached both to the fixed and the resilient-mounted parts of the vehicle or device.

The DUNLOP Type Air Springs can be mounted either individually or in panels (where the requested number of air springs is connected), depending on the vehicle (device) weight. The rubberized-fabric wall of the body must not come into contact with sharp or hot objects (iron scale, edges, exhausts, etc.). The Air Springs can be inflated either individually or centrally. It is recommended to connect them to the source of pressurized air via a control valve.



The Air Springs (air-spring bodies) may be used up to the maximum operating overpressure of 0.7 Mpa valid for the static (assembling) height H_{STAT} .

There must be sufficient room around the Air Spring to prevent the air-spring body wall from getting into contact with other parts of the machine or vehicle during operation. The Air Spring should be provided with a rubber stop to prevent the corrugated parts of rubberized fabric from being damaged by bearing against the metal supporting parts in case of a sudden air escape.

The rubber of the body is not resistant to crude-oil products such as oil, Diesel oil, petrol, kerosene, etc.). If contaminated, wash in with warm water and wipe dry.

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 **Rubena**

Always Innovation

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THE DUNLOP TYPE AIR SPRINGS BODIES

DUNLOP Ref. Number [inches]	Dimensions of the Moulding in the Mould [mm]			Air spring Body Height [mm]			Diameter [mm] A_{max}	Effective Surface [cm ²]
	A	B	C	H_{Stat}	H_{min}	H_{max}		
2 3/4 x 1	70.0	41.0	35.7	60	50	70	78	23
2 3/4 x 2	70.0	68.0	35.7	92	65	110	78	25.5
2 3/4 x 3	70.0	95.0	35.7	119	80	145	78	23
4 1/2 x 1	114.0	50.0	52.0	65	45	90	125	65
4 1/2 x 2	114.0	90.0	52.0	100	65	145	125	67
4 1/2 x 3	114.0	130.0	52.0	145	100	200	125	67
6 x 1	152.5	69.8	75.6	80	58	108	168	135
6 x 2	152.5	127.0	75.6	120	73	170	168	140
6 x 3	152.5	184.2	75.6	180	105	255	168	140
8 x 1	203.2	76.2	99.5	90	47	120	230	200
8 x 2	203.2	139.7	99.5	150	72	225	230	220
8 x 3	203.2	203.2	99.5	210	115	330	230	180
9 1/4 x 2	235.0	152.4	112.5	160	70	240	260	272
10 x 1	254.0	89.0	125.5	95	50	135	280	350
10 x 2	254.0	165.3	125.5	160	70	240	280	355
10 x 3	254.0	241.6	125.5	235	100	365	280	350
12 x 1	304.8	89.0	181.0	95	50	145	330	510
12 x 2	304.8	165.3	181.0	160	74	240	330	510
12 x 3	304.8	241.6	181.0	222	100	430	330	510
14 1/2 x 1	368.3	101.6	232.0	105	47	165	395	750
14 1/2 x 2	368.3	190.5	232.0	180	70	280	395	760
14 1/2 x 3	368.3	279.4	232.0	280	100	476	395	800
16 x 1	406.4	101.6	232.0	105	50	200	430	850
16 x 2	406.4	190.5	232.0	180	77	320	430	950
16 x 3	406.4	279.4	232.0	280	125	500	430	850
21 1/2 x 2	546.1	191.0	408.5	200	90	390	570	1 950

LEGEND:

The real dimensions of the air-spring body differ from the mentioned moulding dimensions by the negative value of 1.5 to 2.5 % (rubber shrinkage).

A = Outside dimension of the body

B = Body height

C = Inside body diameter

H_{stat} = Static (assembling) height of the body

