

Air Spring

AIR SPRING TORPRESS - 1 CONVOLUTION

Properties

- are consisting of rubber or fabric membranes fitted at both ends with open flanges or metal plates with holes for air feed and threaded mounting bushes or bolts
- can be used as **ACTUATORS**, instead of pneumatic or hydraulic cylinders, or as **ANTI-VIBRATION** elastic mounts with a high vibrational isolation
- not require expensive control units and normally work with air network even at low pressure, both dry and lubricated
- low design height
- even work between nonparallel or misaligned planes
- long service life and maintenance free
- suitable for working in dusty or explosive environments
- absence of friction for the lack of sliding elements
- noiseless operation
- can bear load of a few kilogrammes up to 14 tons with travel up to 275 mm

Applications as Actuators

- vehicle applications
- materials handling equipment - agricultural machinery
- food industry
- paper and textile equipment
- punch and forming presses
- sawmill machinery

Applications as Anti-Vibration

- diesel engines, generators - foundation mounts
- heavy machinery
- measuring instruments
- power looms
- vehicle test rigs
- washing machines



Code - S2TOP....

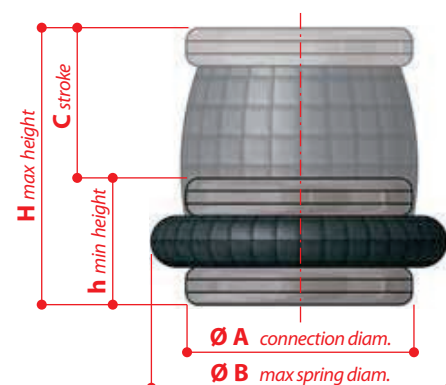
Material - NBR/Metal

Pressure - 0,0 ÷ 7,0 bar

Temperature - standard: -35 ÷ +80 °C
vers. HT: -35 ÷ +100 °C

Spring Dimensions

Model	Code		Connection type	Ø A	Ø B	H	h	C
	standard	HT		mm	mm	mm	mm	mm
16	93029	93086	P1	114,5	153	91	46	45
131	94047	---	P1	114,5	165	110	50	60
110	93113	93114	P1	114,5	210	151	51	100
110	88540	93079	F1	134	210	145	45	100
110	88820	89023	F1	155	210	145	45	100
116	93027	---	P1	135	231	152	46	106
19	94016	95015	P2	228,6	325	151	51	100
19	94014	---	F2	247	325	143	43	100



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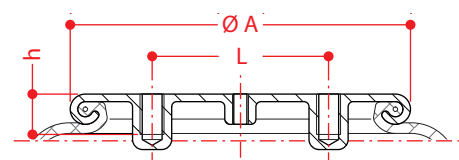
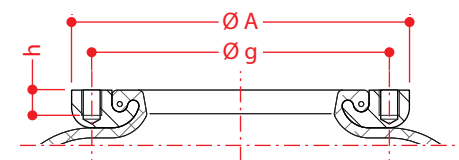
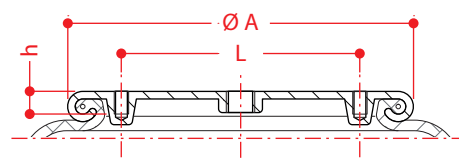
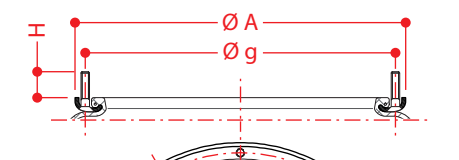
Performance Table
(referring to the Max operating pressure of 7 bar)

Model	Code		Connection type	Anti-Vibration		Actuators		
	standard	HT		h recomm.	Load	Stroke max	Force Fat min	point of stroke max
				mm	Kn	mm	Kn	Kn
16	93029	93086	P1	70	6,0	45	7,3	1,1
131	94047	---	P1	85	6,7	60	9,6	2,4
110	93113	93114	P1	101	12,6	100	14,4	3,6
110	88540	93079	F1	95	12,6	100	14,4	3,6
110	88820	89023	F1	95	12,6	100	14,4	3,6
116	93027	---	P1	100	12,6	106	14,7	3,0
19	94016	95015	P2	127	31,5	100	33,9	9,6
19	94014	---	F2	127	31,5	100	33,9	9,6

Dimensions Connection

Model	Connection type	Air Inlet	Ø A	Ø g	H	h	L	Connection bolts / holes	
								n°	Ø
		mm	mm	mm	mm	mm	mm		
16	P1	1/4" NPT (F)	114,5			16	44,5	2	3/8" - 16 UNC
131	P1	1/4" NPT (F)	114,5			16	44,5	2	3/8" - 16 UNC
110	P1	1/4" NPT (F)	114,5			16	44,5	2	3/8" - 16 UNC
110	F1		134	118		10		6	M8x1,25
110	F1		155	138		10		6	M8x1,25
116	P1	1/4" NPT (F)	135			16	70,0	2	3/8" - 16 UNC
19	P2	1/4" NPT (F)	228,6			16	157,5	2	3/8" - 16 UNC
19	F2		247	228,5	24			12	M8x1

ATAG reserves the right to make changes without notice, by virtue of any quality improvements and/or product specifications - apr_19 rbd


type P1

type F1

type P2

type F2