

2 Anti-Vibration

Support elements for machines

Air Spring TORPRESS - 2 convolution

Proprietà

- 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....

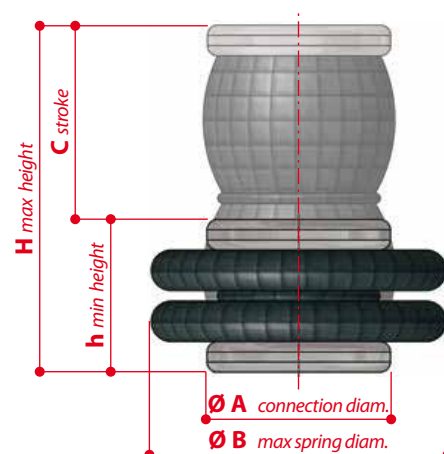
Material - NBR/Metal

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						
23 B	202665	---	F1	mm 134	mm 165	mm 205	mm 65	mm 140
26	84181	89422	F2	mm 155	mm 220	mm 245	mm 85	mm 160
20	86600	88538	F2	mm 179	mm 255	mm 265	mm 80	mm 185
245	93740	90587	F1	mm 200	mm 270	mm 310	mm 85	mm 225
22	94091	---	P2	mm 228,5	mm 325	mm 288	mm 88	mm 200
22	88544	89425	F2	mm 247	mm 325	mm 280	mm 80	mm 200
21 BR	89457	---	F2	mm 306	mm 380	mm 290	mm 80	mm 210
21A BR	97300	---	F2	mm 306	mm 435	mm 315	mm 85	mm 230
21B BR	92154	---	F2	mm 306	mm 440	mm 385	mm 85	mm 300
28 BR	92527	---	F2	mm 369,4	mm 445	mm 310	mm 80	mm 230
28 B	90559	---	F2	mm 369,4	mm 485	mm 375	mm 85	mm 290
29	93056	---	P3	mm 480	mm 570	mm 330	mm 90	mm 240
29	93166	---	F2	mm 501,2	mm 570	mm 320	mm 80	mm 240



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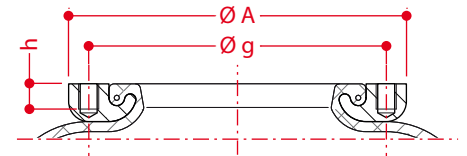
Performance Table (referring to the Max operating pressure of 7 bar)

Model	Code		Connection type	Anti-Vibration		Actuators		
	standard	HT		h recomm.	Load	Stroke max	Force F at point of stroke min	max
				mm	Kn	mm	Kn	Kn
23 B	202665	---	F1	150	7,3	140	10,0	2,9
26	84181	89422	F2	165	11,5	160	15,0	4,2
20	86600	88538	F2	170	16,8	185	20,1	3,0
245	93740	90587	F1	185	24,4	225	26,8	7,4
22	94091	---	P2	183	31,5	200	36,0	5,4
22	88544	89425	F2	175	31,5	200	36,0	5,4
21 BR	89457	---	F2	180	47,6	210	54,0	9,1
21A BR	97300	---	F2	190	55,0	230	63,5	22,0
21B BR	92154	---	F2	200	60,0	300	67,2	12,0
28 BR	92527	---	F2	185	71,1	230	81,0	11,0
28 B	90559	---	F2	250	71,1	290	88,2	15,6
29	93056	---	P3	195	135,1	240	14,2	29,4
29	93166	---	F2	185	135,1	240	14,2	29,4

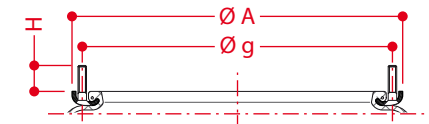
Dimensions Connection

Model	Connection type	Air Inlet	Ø A	Ø g	H	h	L	Connection bolts / holes	
								n°	Ø
		mm	mm	mm	mm	mm	mm		
23 B	F1		134	118		10		6	M8x1,25
26	F2		155	135	24			6	M8x1
20	F2		179	160,3	24			8	M8x1
245	F1		200	145		10		8	M8x1,25
22	P2	1/4" NPT (F)	228,5			16	157,5	2	3/8" - 16 UNC
22	F2		247	228,5	24			12	M8x1
21 BR	F2		306	287,3	24			12	M8x1
21A BR	F2		306	287,3	24			12	M8x1
21B BR	F2		306	287,3	24			12	M8x1
28 BR	F2		369,4	350,8	24			18	M8x1
28 B	F2		369,4	350,8	24			18	M8x1
29	P3	1" NPT (F)	480		21	27		1	Ø 25
29	F2		501,2	482,6	24			24	3/8" - 16 UNF

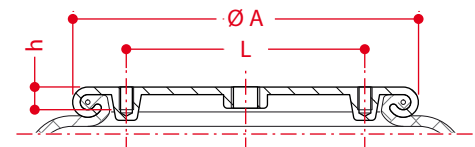
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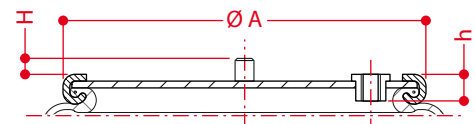
type F1



type F2



type P2



type P3