

COMPACT AIR BELLOWS PM/31000

Single acting – Ø 2 3/4 to 12 inch



Frictionless operation

No maintenance or lubrication

Ideal for short stroke, high-force applications

High vibration isolation level

Easy, compact installation

TECHNICAL DATA

Medium:

Compressed air, non-lubricated

Operating pressure:

8 bar maximum

Operating temperature:

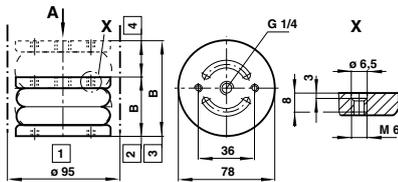
-40°C to +70°C for PM/31000

Consult our Technical Service for use below +2°C

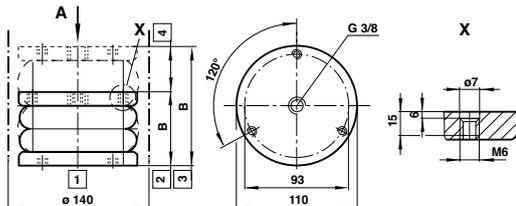
Important instructions:

The design of these air bellows allows an operation at an angle of 5° to 25°. The top and bottom plate can be out of alignment, depending on the height of the air bellow and the number of convolutions. To avoid damage mechanical stops at both end positions have to be used. To return Air Bellows to their minimum height an external return force must be used. The thrust depends directly on the height of the air bellow: When height increases – the thrust decreases. As the outside diameter varies in operation there must be enough clearance around the air bellow.

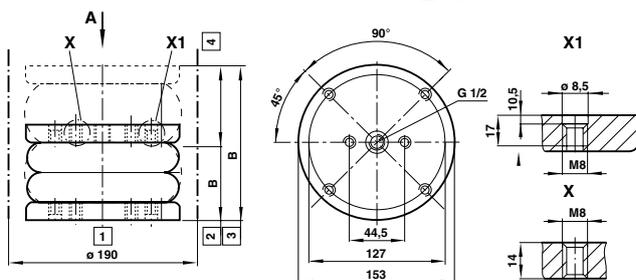
PM/31021 ...
PM/31023



PM/31041,
PM/31042



PM/31061,
PM/31062



- 1 Installation diameter min.
- 2 Installation height min.
- 3 Installation height max.
- 4 Stroke

Dimensions

Stroke (mm)	Installation height B min. (mm)	B max. (mm)
20	50	70
45	65	110
65	80	140
40	50	90
80	65	150

Dimensions

Stroke (mm)	Installation height B min. (mm)	B max. (mm)
55	55	110
115	80	195

If you can't see the option you require...
...call the Express hotline now!

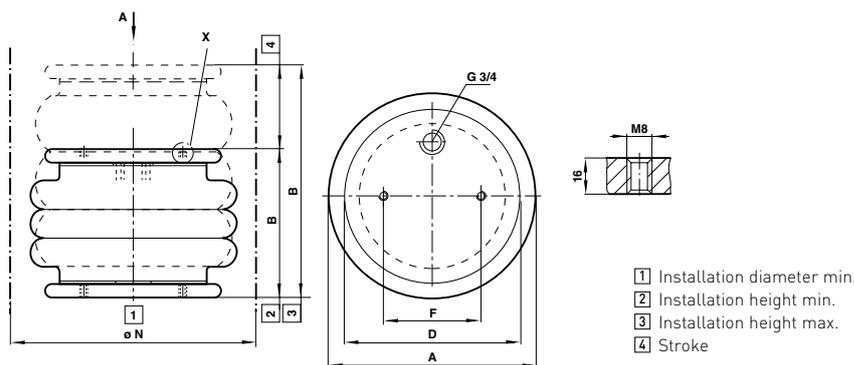
For further information
www.norgren.com/info/nec/en055



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PM/31081 ...
PM/31122



Dimensions

Stroke (mm)	Installation height		Ø A	Ø D	Ø F	Ø N
	B min. (mm)	B max. (mm)				
95	60	155	225	135	70	240
185	80	265	220	135	70	240
105	55	160	255	160	89	275
230	80	300	255	160	89	275
105	60	165	335	228	157,5	360
215	85	300	325	228	157,5	350

Models

Model	Nominal Ø (inch) x convolutions	Maximum stroke (mm)	Port size
PM/31021	2 3/4 x 1	20	G1/4
PM/31022	2 3/4 x 2	45	G1/4
PM/31023	2 3/4 x 3	65	G1/4
PM/31041	4 1/2 x 1	40	G3/8
PM/31042	4 1/2 x 2	80	G3/8
PM/31061	6 x 1	55	G1/2
PM/31062	6 x 2	115	G1/2
PM/31081	8 x 1	95	G3/4
PM/31082	8 x 2	185	G3/4
PM/31091	9 1/2 x 1	105	G3/4
PM/31092	9 1/2 x 2	230	G3/4
PM/31121	12 x 1	105	G3/4
PM/31122	12 x 2	215	G3/4

Safety note: These actuators must not be pressurised when unrestrained
For exact calculation for compact air bellows please contact our Technical Service

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