CUPS BASED ON BERNOULLI'S THEOREM

Bernoulli's theorem explains many phenomena, such as the lifting of a plane's wing or of a light disc in front of a tube end from which air flows out quickly.

This apparently paradoxical phenomenon is exploited for manufacturing vacuum gripping systems (vacuum cups) and handling, with no contact, fragile objects, such as semiconductor plates, silica discs, solar cells, precious metal foils, films and whatever needs to be handled with the greatest care.

Our cups based on Bernoulli's principle are made with anodised aluminium, with stainless steel centre thrust disc.

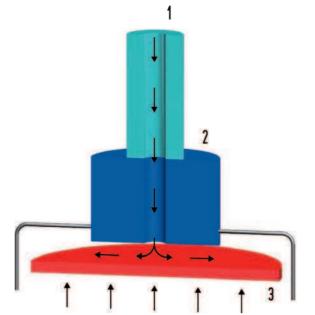
The antistatic silicon spacers, located on the cup gripping plane, prevent transverse movements of the gripped object.

The compressed air supply connections can be axial and radial and the quick coupler for the flexible pipe is included in the package.

The unused holes are closed with brass threaded caps.

On the rear part of the cup there are 3 or 4 threaded holes for fiving it to the machine.

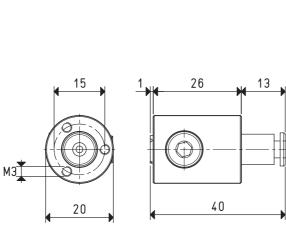




BERNOULLI'S THEOREM

Lifting of a light disc in front of a tube end from which air flows out at high speed:

- 1) Air duct
- 2) Body of the device
- 3) Disc to be lifted





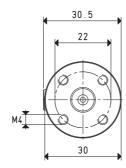
For ext. Ø 4 mm pipe

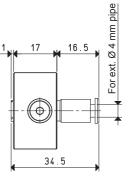


Art.	max.	Transversal	Operating	Air	Noise	Weight	Included	Spare
	Force	Force	pressure	consumption	level		coupler	spacer
	g	g	bar (g)	NI/s	dB(A)	g	art.	art.
BEC 20	220	145	5	2.3	66	21	00 BEC 13	00 BEC 1 <mark>0</mark>

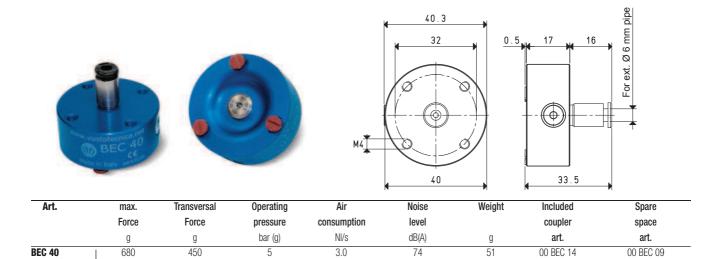
CUPS BASED ON BERNOULLI'S THEOREM

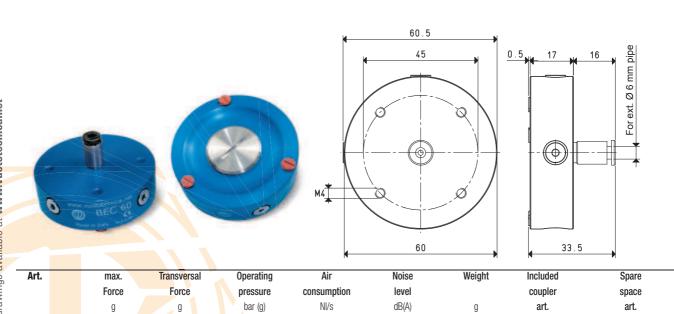






Art.	max.	Transversal	Operating	Air	Noise	Weight	Included	Spare
	Force	Force	pressure	consumption	level		coupler	spacer
	g	g	bar (g)	NI/s	dB(A)	g	art.	art.
BEC 30	380	250	5	2.5	72	31	00 BEC 13	00 BEC 10





4.4

75

121

00 BEC 14

00 BEC 09

BEC 60

1.146

900

600