

# piSOFTGRIP®

Extending food automation – Cost effective solution for handling sensitive and delicate objects



**PIAB IS PROUD TO INTRODUCE** the new soft gripping tool piSOFTGRIP®, developed especially with food industry automation in mind. The vacuum-based soft gripper will grip sensitive and lightweight objects of odd geometries and/or an unusual surface. Bin-picking of small irregularly shaped objects, such as toys, is another potential application.

piSOFTGRIP® has three gripping fingers and a vacuum cavity, all made in one piece, resulting in a simple and robust product. As it is vacuum-driven, the gripping force is easily adjusted and controlled by the applied vacuum level.

Combined with Piab's end-of-arm vacuum tool piCOBOT®, the piSOFTGRIP® offers a powerful and flexible “plug and play” extension for collaborative robots. As both piCOBOT® and piSOFTGRIP® offer compressed air saving functionality (ES), virtually no energy is needed to perform a grip and release. The handy and application-friendly soft gripper is already UR certified for such use.

- Vacuum driven soft gripper with simple and robust design
- Cost effective solution for sensitive and difficult objects
- Intuitive and user-friendly design
- As easy to control and install as a suction cup
- Material is food compliant and detectable



# piSOFTGRIP®

## Main advantages



### Easy to use and control

The soft gripping vacuum tool is as easy to control and install as a suction cup, and it uses the same fittings as Piab's piGRIP® suction cups. An optional stainless-steel fitting offers wash-down provision to assist cleaning. Its intuitive and user-friendly design makes piSOFTGRIP® easy to integrate into automated procedures, where it can help to secure the quality of products and increase overall productivity.



### Food approved

Made in detectable silicone approved for direct contact with food (in accordance with FDA 21 CFR and EU 1935/2004 regulations), the piSOFTGRIP® vacuum gripper is the first of its kind. The food-compliant silicone gripper enables the food industry to extend their automated food handling to include a wider range of products. Unpackaged, fresh and delicate food items can be handled without risk of being spoiled due to crushing.



### Great gripping solution for sensitive objects

The piSOFTGRIP® is an excellent and cost-effective solution for sensitive and difficult to grip objects. The gripping force can easily be controlled by simply adjusting the vacuum level. The soft gripper can grip objects with a diameter of up to 50mm [1.97"]. Larger models will be introduced at a later stage.

Description	Unit	Value
Building height	mm / [inch]	78 / [3.07] (with G3/8" male fitting)
Outer diameter	mm / [inch]	72 / [2.83]
Weight	g / [oz]	55 / [1.94] (with G3/8" male fitting)
Temperature range	C° / [F°]	-20-100 / [-4-212]
Recommended vacuum level	-kPa / [-inHg]	25-70 / [7.5-21]
Recommended object size	mm / [inch]	20-50 / [0.79-1.97]