

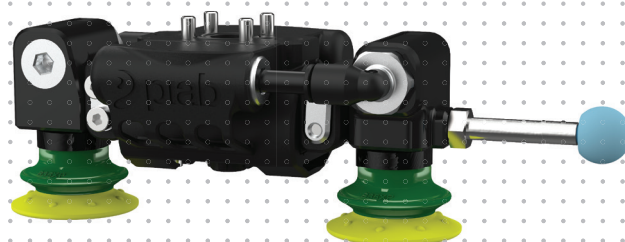
Piab gives you service all over the world.
To find your local distributor, please visit www.piab.com.

No need to compromise.

www.piab.com

Manual Adjustable Gripper

piCOBOT adjustable gripper



Gripper

Art. No. 0212275 Rev.01
Piab AB 2018-10

Smart solutions for the automated world™ 

Adjustable Gripper

Features

- ▶ Flexible and adaptable to perfectly match application needs.
- ▶ Optimized design for high reliability and fast cycle times.
- ▶ Re-configurable within 2 minutes.
- ▶ Integrated piSAVE sense technology allowing for single and/or double picking.
- ▶ Flexible and stepless adjustability in suction cup distance, 97-142mm.
- ▶ Stepless angle adjustability of individual suction cups, $\pm 15^\circ$. Allows for maximum adaption to object surface variations.
- ▶ Push-pin can be mounted on the adjustable gripper suitable for pressing buttons or reorient objects.

General		
Description	Unit	Value
Weight	g [oz]	210 [7.4]
Operating temp	C° [F]	0 - 50 [32-122]
Material	-	PA, AL, SS, PU
Internal volume	cm ³	16
Application	-	Cobot applications
Max payload	g [oz]	7000 [246.9]

Fitting		
Description	Unit	Value
Thread	G	1/4"
Adjustable angle cup fitting	Deg.	± 15
piSAVE Sense 03 (green)	-	-
Pump flow/cup to close valve	Nl/s	0.37 (@ 3 -kPa)
Pump flow/cup minimum	Nl/s	0.06 (@ 45 -kPa)

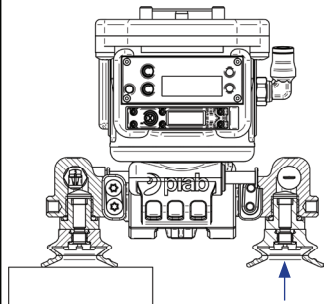
Spare parts	
Description	Part number
O-ring 5 pcs	0212319
Push-pin	0211786

Compressed air quality

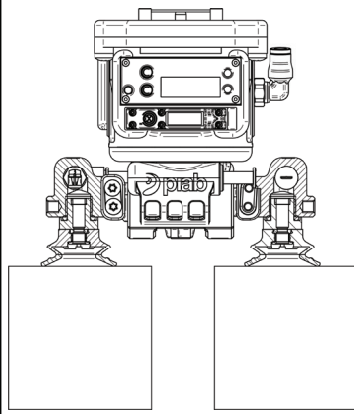
Quality of the compressed air shall fulfil the requirements in DIN ISO 8573-1 class 4.

piSAVE sense

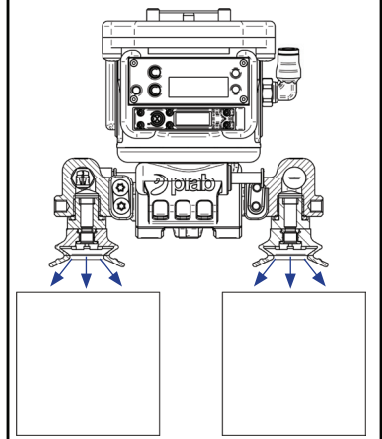
Allows for the gripper to pick one object at the time and release two at ones. When one object is picked, the other suction cup will still have a small flow that will be activated and starts suction at a higher rate when picking another object.



Picking one object. Other cup will still have a small flow.

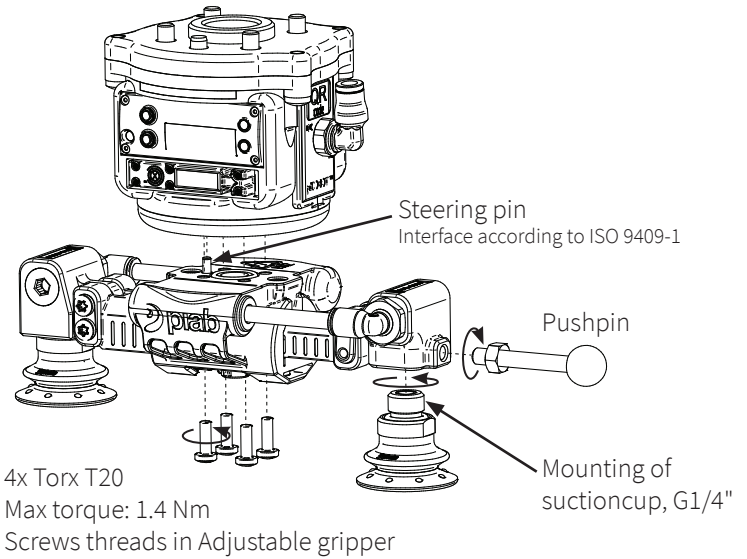
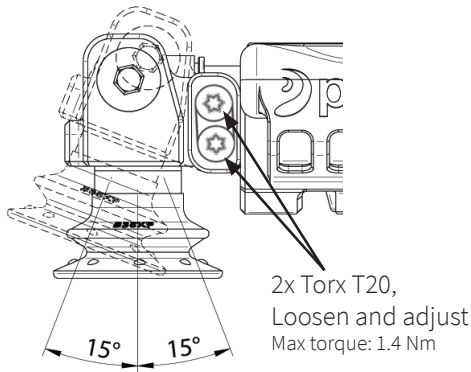


Pick up another object.

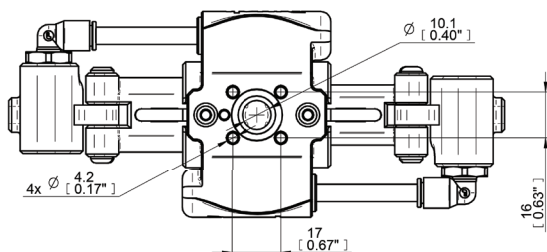
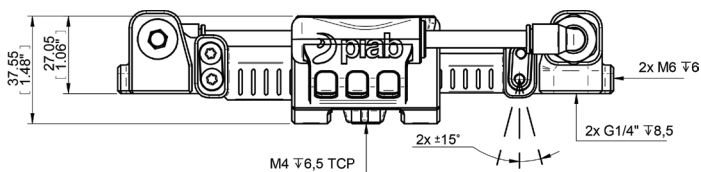
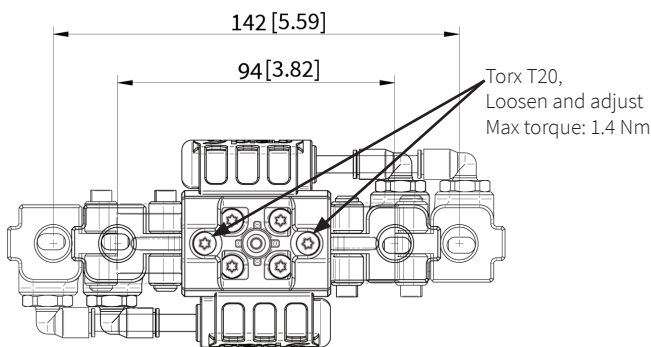


Release both objects with blowoff.

Independent adjustable angle.



Independent adjustable arms. CC 97-142mm



INTENDED USE

- ▶ The product shall be used to evacuate air (non liquids) from a volume to create vacuum for gripping and holding
- ▶ For professional use only.
- ▶ Only use with suction cups

The Adjustable Gripper is an end-of-arm tooling on collaborative robots with payloads up to 7kg.

The typical applications for Adjustable Gripper are:

- ▶ Industrial, pick-and-place, Top loading, Palletizing, machine tending, Bin picking, Order fulfilment, Assembly

MISUSE

- ▶ The product shall not be used to evacuate liquids.
- ▶ The product shall not be used to evacuate solid content without the use of filter.
- ▶ Do not install or operate the Adjustable Gripper if damaged.
- ▶ Use while locking screws are not tightened.

The Adjustable Gripper is only cleared for operation under conditions noted in the product manual and the Adjustable Gripper data sheet. Any use or application deviating from intended use is deemed to be impermissible misuse. This includes, but is not limited to:

- ▶ Use outside the permissible operational conditions and specifications for Adjustable Gripper
- ▶ Use in direct contact with water spray or excessive amount of water
- ▶ Use in submerged applications/environments
- ▶ Use in potentially explosive atmospheres
- ▶ Use in welding applications
- ▶ Use in life critical applications
- ▶ Use close to a human's head, face and eye area
- ▶ Use as a lifting or hooking device.