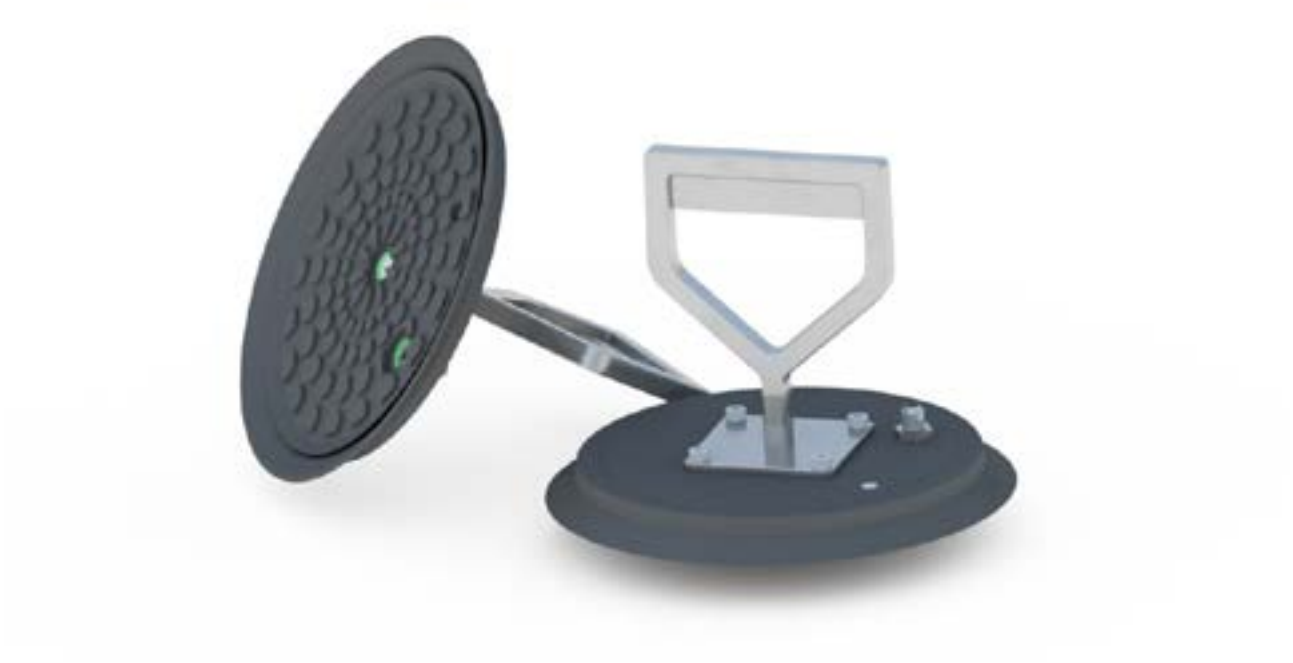
XLF300 extra large flat cup G1/2” female



The function of the compensator is to maintain a raised pressure in a fluid circuit related to ambient at all water depths. This is achieved by a spring acting on a rolling diaphragm, i.e. the connected fluid circuit will always see a pressure equal to ambient sea water pressure plus the pressure generated by the spring.

Use of rolling diaphragm instead of piston is a great advantage to reduse hysteresis in the compensation system. The compensator is provided with an interface that allows easy installation and stacking. Optional analog volume sensor is available. Even without volume sensor, the oil level can be visually read through slots in the spring housing.

Specifications

Product	16 L hydraulic compensator
Country of origin	Sweden
Manufacturer	Piap group

Features and benefits

- Suitable for handling large and heavy sheets, such as glass and metal, with a flat or slightly concave surface.
- Friction pattern increases safety and capabillity to handle tilted or standing glass/metal sheets.
- Durable and abrasive resistant material reduces the risk for marks.
- Double lip design increases safety against overload or tear on the outer lip.
- Flat mounting plate facilitates customized mounting interfaces.
- Auxiliar y port, suitable for vacuum sensing or efficient blow-off/release

General

Specification	Outer lip
Curve radius	1900 mm
Movement, vertical max.	8 mm
Application	Glass handeling, mark free, dry sheet metal
Material	Nitrile-PVC (NPV)
Suction cup model	XLF
Suction cup shape	Flat
Volume	666 cm³
Weight	2.04 kg

Mechanical

Fitting size	1/2”
Fitting style	Female
Fitting type	G-thread
Fitting option	None

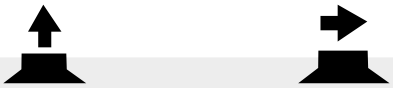
Dimensions

Height	27 mm
Outer diameter	304 mm
Outer diameter, actuated	309.3 mm

Preformence - lifting forces, outer lip

20 -kPa	2620 N	1828 N
60 -kPa	3760 N	2720 N
90 -kPa	5450 N	3936 N

Preformence - lifting forces, inner lip



20 -kPa	2150 N	1828 N
60 -kPa	3200 N	2720 N
90 -kPa	4630 N	3936 N

Material

	Nitrille-PVC (NVP)
Colour	Black
Temperature	50° Shore A
Hardness	0- 90°C

Values specified in this data sheet are tested at

Compressed air quality	DINISO 8573-1 class 4
Room temperature	20°C [68°F] ± 3°C [5.5°F]
Standard atmosphere	101.3 [29.9 inHg] ± 1.0 kPa [0.3 inHg]
Relative humidity	20-70%

Material resistance

	Nitrille-PVC (NVP)
Alcohol	++
Concentrated acids	+
Ethanol	N/A
Hydrolysis	++
Methanol	N/A
Oil	+++
Oxidation	++
Petrol	+++
Wear resistance	+++
Weather and ozone	++