

VACUUM PRODUCTS



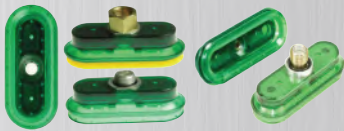
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PIAB
Product Overview



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PIAB
Friction Suction Cups



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PIAB
Suction Cups



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Product Introduction



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PIAB
Value Line Brass Fittings



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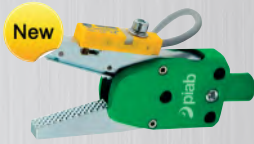
PIAB
Value Line Vacuum Ejector Pumps



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PIAB
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VACUUM PRODUCTS



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PIAB
End Of Arm Tooling Components
(EOAT)



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PIAB
piCOMPACT®23 smart
Vacuum Generators



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PIAB
piCOMPACT® Micro
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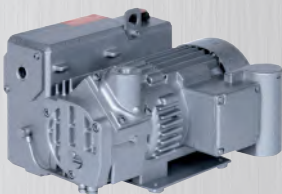
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PIAB
piINLINE® Vacuum Ejectors



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PIAB
piCLASSIC® Classic Pumps



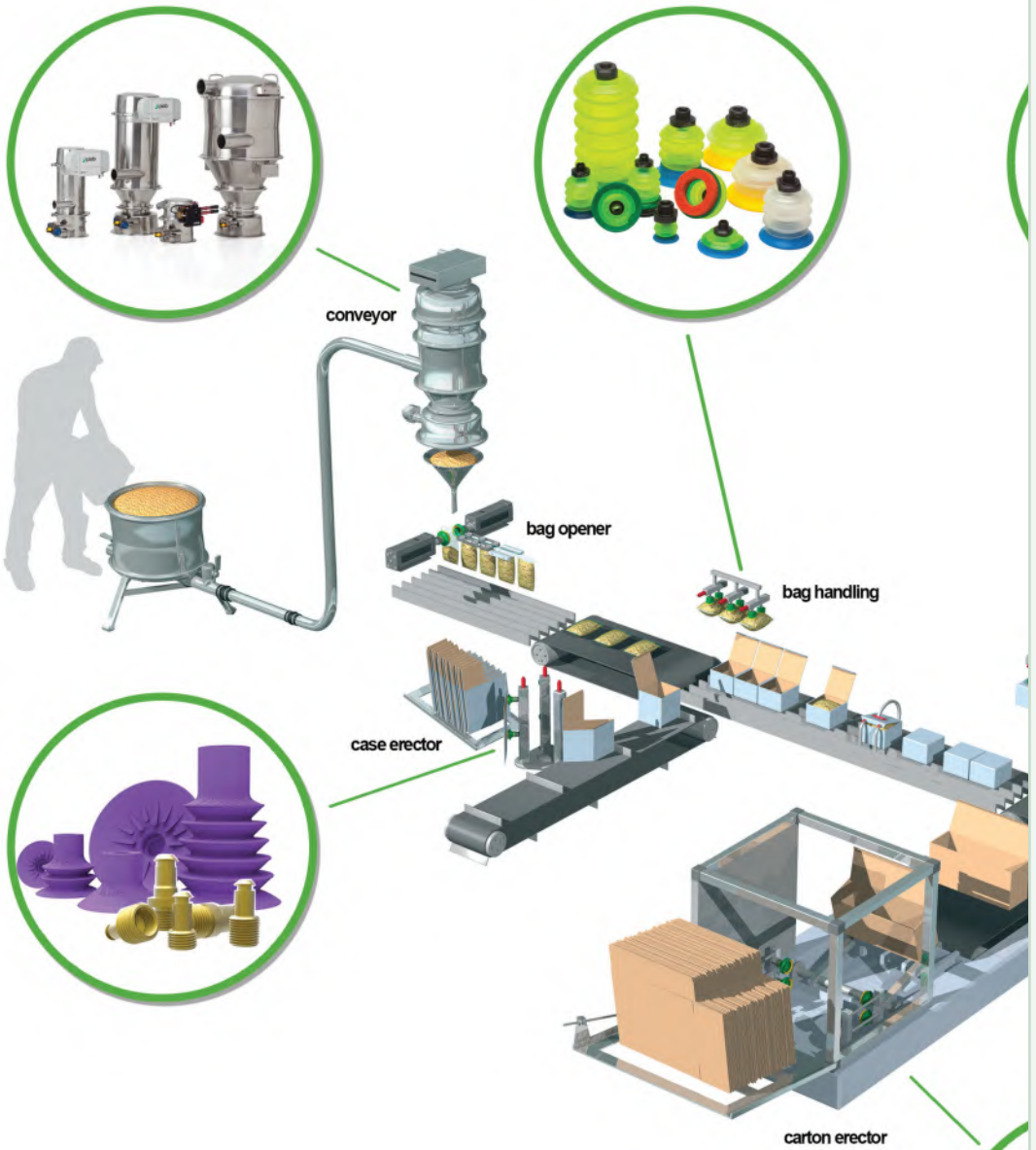
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ELMO RIETSCHLE
Rotary Vane Vacuum Pumps
& Blowers



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ELMO RIETSCHLE
Vacuum Pumps & Accessories



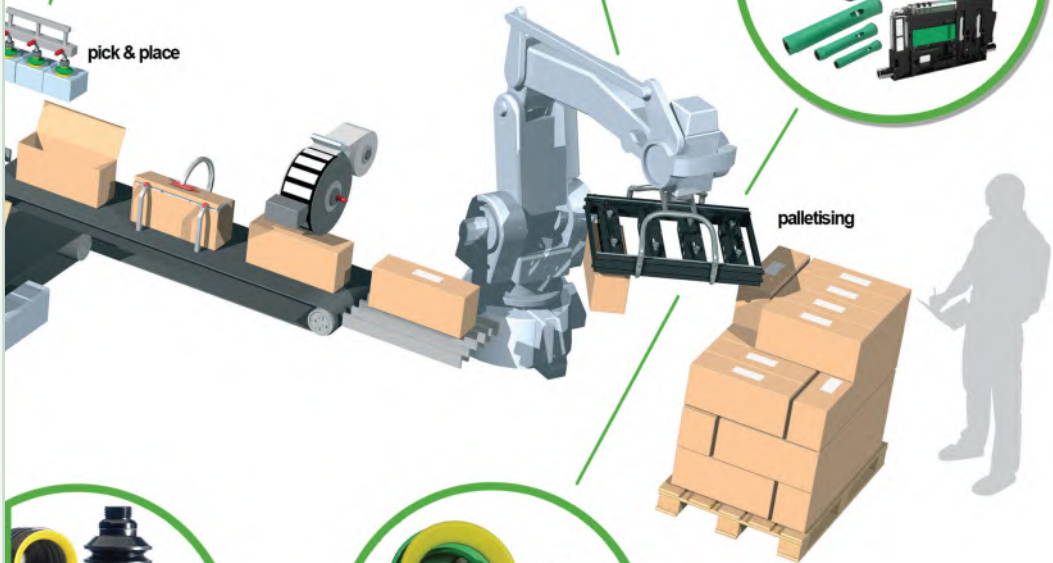
total system vacuum solutions



piab



pick & place



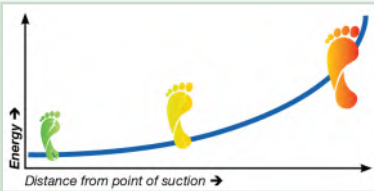
palletising



AN ECO-FRIENDLY VACUUM SYSTEM



By never using more energy than absolutely necessary, companies can reduce their carbon footprint as well as their costs. Piab can work with you to achieve the lowest possible energy consumption.



ENVIRONMENTAL INDEX

Your pump will require less compressed air when placed close to the point of suction, thus reducing CO₂ emissions and energy consumption.

The graph demonstrates the relationship between environmental impact and the distance of the pump from the point of suction.

BEST TO USE A DECENTRALISED VACUUM SYSTEM

A decentralised system with the vacuum pump / cartridge placed directly at the point of suction eliminates the risk of loss in the vacuum piping and the need for expensive, oversized components. A centralised vacuum system is designed to have one vacuum source for multiple suction points.

- Lowest energy usage
- Fastest cycle time
- Safest product handling
- Most flexible design for zoning
- Easiest troubleshooting
- Independently working suction cups
- Most consistent / even performance



IF NOT, DESIGN A CENTRALISED VACUUM SYSTEM




A centralised vacuum system is designed to have one vacuum source for multiple suction points.

- Easy installation
- Easy vacuum sensing and controls
- Light end-of-arm tooling
- Simple filtration options
- Some loss in system performance due to distance



Contact your distributor for further information.

SUCTION CUPS / GRIPPERS INTRODUCTION

| SUCTION CUP CATEGORY | FEATURES | APPLICATIONS |
|---|--|---|
|  <p>piGRIP® Modular suction cups</p> | <ul style="list-style-type: none"> • Unique modular suction cup concept with individually optimised lips and bellows for gripping, lifting and height compensation on almost any kind of object. • A large selection of fittings makes piGRIP cups ready to fit new machines and easy to retrofit. • The material is 100% recyclable. • Available in FDA approved qualities: silicone (PWIS) free and mark free versions. • The combination of firm bellows and soft lips will allow for high machine speeds. • There is also a fitting that has an ejector integrated, the COAX® in piGRIP for creating a decentralised pump. | <p>Smooth, textured, uneven and also very rough surfaces on objects such as plastic pieces, wood, sheet metal (dry), glass, corrugated cardboard, carton, food, tiles, etc.</p> |
|  <p>DURAFLEX® Single durometer</p> | <ul style="list-style-type: none"> • Manufactured in a material that features the elasticity of rubber and wear resistance of polyurethane. • The material is silicone free and mark free. • Has an exceptional elastic memory. • The single durometer DURAFLEX cups are extra wear resistant and long lasting. | <p>Smooth surfaces on objects such as plastic pieces, furniture pats, sheet metal (dry), glass, solar panels, etc.</p> |
|  <p>DURAFLEX® Dual durometer</p> | <ul style="list-style-type: none"> • Manufactured in a material that features the elasticity of rubber and wear resistance of polyurethane. • The material is silicone free and mark free. • Has an exceptional elastic memory. • The dual durometer DURAFLEX cups have firm bellows or body and a soft pliable lip. • The suction cup is then stable, durable and flexible with excellent sealing properties. | <p>Textured, uneven and also very rough surfaces on objects such as plastic pieces, wood, sheet metal (dry), glass, corrugated cardboard, carton, tiles, etc.</p> |

| SUCTION CUP CATEGORY | FEATURES | APPLICATIONS |
|--|--|---|
|  <p>DURAFLEX® Friction</p> | <ul style="list-style-type: none"> Manufactured in a material that features the elasticity of rubber and wear resistance of polyurethane. The material is silicone free and mark free. Has an exceptional elastic memory. Has an exceptional grip / shear force of oily surfaces. Wear on the cups will not degrade the shear / grip performance; it will improve. These cups are outstanding for handling oily metal sheets with high speed acceleration. | Oily metal sheets and other lubricated surfaces. |
|  <p>DURAFLEX® Bag</p> | <ul style="list-style-type: none"> Manufactured in a material that features the elasticity of rubber and wear resistance of polyurethane. The material is silicone free and mark free. Has an exceptional elastic memory. Specially designed for plastic bag handling. The unique suction cup fitting allows the high initial flow needed for a secure grip. The dual hardness suction cup with soft lip and firm bellows offers better sealing capabilities. Stable and secure handling. | Plastic bag handling. |
|  <p>FDA</p> | <ul style="list-style-type: none"> The material is free from colour pigments. The silicone material complies with FDA (FDA 21 CFR 177.2600). Meets EU's regulation EU 1935/2004. Wide temperature range. Available from very small sizes. | Contact with food or FDA environments. |
|  <p>Silicone</p> | <ul style="list-style-type: none"> Durable silicone material. Soft and pliable. Possible to get a good grip on non-smooth surfaces. Wide temperature range. Available from very small sizes. Options with detectable silicone material and conductive / anti-static silicone. | Packages, pre-coloured plastic parts (high temperature), bakery (detectable), electronics / semiconductor (conductive / anti-static). |
|  <p>Silicone Bag</p> | <ul style="list-style-type: none"> Durable silicone material. Soft and pliable. Tailor-made for handling different types of bags and pouches with varying content. The design is optimised for uneven, wrinkled bags and pouches. It will minimise the "surface leakage" and maximise the grip. The unique fitting allows the high initial flow needed for a secure grip. | Bags with fragile contents and food, bags with liquids, viscous contents and frozen food, "easy" bags, open bags. |
|  <p>Nitrile-PVC and CR</p> | <ul style="list-style-type: none"> Oil, petrol and ozone resistant material. Larger sizes are made of Nitrile-PVC and smaller sizes of CR (Chloroprene). | Conventional suction cups material for general purposes. |
|  <p>TPU</p> | <ul style="list-style-type: none"> Probably the most mark-free suction cups on the market! (Almost all suction cups will leave detectable marks or traces on a "micro" level, some washable, others not. Tests have proven that these TPU cups are the best option when marks are not allowed.) | Solar panels, glass, displays, screens. |
|  <p>HNBR</p> | <ul style="list-style-type: none"> High temperature applications where silicone or other paint-wetting impairment substances (PWIS) are not allowed. Made of HNBR. Very durable and wear resistant. | Removing hot plastic parts from injection moulding equipment, glass handling. |
|  <p>piGRAB gripper</p> | <ul style="list-style-type: none"> Its gentle grip is useful when picking randomly placed or sensitive items from a bin. It simplifies the engineering versus more complex pneumatic / mechanical solutions for lifting parts such as pallets. Easy to fine tune the gripping torque / force by controlling the vacuum level. | Bin picking, lifting empty pallets. |

DESCRIPTION

DURAFLEX® suction cups manufactured in a specially developed material that features the elasticity of rubber and wear resistance of polyurethane. The material does not leave any marks on the objects handled and has a fantastic elastic memory.

DCF FEATURES

Specially designed friction cups for oily surfaces, such as sheets in metal forming processes. Thanks to the strong grip on oily surfaces, the suction cups can withstand high shear forces, typically 2–4 times more than corresponding conventional suction cups. The DCF design is suitable for flat, convex or concave surfaces, such as those encountered when handling metal sheets in later stages of a press line. The suction cups have a thin design that easily follows the curved metal sheet. A special inner pattern gives maximum shear force grip even on oily / slippery surfaces.

OBF FEATURES

The OBF design is suitable for oblong objects with domed and flat surfaces, such as those encountered with body parts in the automotive industry. Can handle objects with height differences.

BFF FEATURES

The BFF design is suitable for uneven / curved surfaces or if level compensation is needed, such as de-stacking applications. The flat inner support gives stability during movement in any orientation.

DURAFLEX DCF RANGE



FRICION SUCTION CUP POLYURETHANE 60

5020

| PART NUMBER | MODEL | THREAD | PRICE |
|-------------|---------|--------------------------|--------|
| VAC-0206538 | DCF65P | 3/8" BSPP female plastic | £24.11 |
| VAC-0206543 | DCF90P | 3/8" BSPP female plastic | £31.58 |
| VAC-0206548 | DCF110P | 3/8" BSPP female plastic | £35.76 |

POLYURETHANE 60 WITH MESH FILTER

| | | | |
|-------------|---------|-----------------------------------|--------|
| VAC-0206794 | DCF65P | 1/4" BSPP female | £24.11 |
| VAC-0206537 | DCF65P | 3/8" BSPP female | £24.11 |
| VAC-0206536 | DCF65P | 3/8" BSPP male / 1/8" NPSF female | £24.11 |
| VAC-0206535 | DCF65P | 3/8" NPT female | £24.11 |
| VAC-0206539 | DCF65P | T-slot | £28.50 |
| VAC-0206795 | DCF90P | 1/4" BSPP female | £31.58 |
| VAC-0206542 | DCF90P | 3/8" BSPP female | £31.58 |
| VAC-0206541 | DCF90P | 3/8" BSPP male / 1/8" NPSF female | £31.58 |
| VAC-0206540 | DCF90P | 3/8" NPT female | £31.58 |
| VAC-0206544 | DCF90P | T-slot | £35.97 |
| VAC-0206796 | DCF110P | 1/4" BSPP female | £35.76 |
| VAC-0206547 | DCF110P | 3/8" BSPP female | £35.76 |
| VAC-0206546 | DCF110P | 3/8" BSPP male / 1/8" NPSF female | £35.76 |
| VAC-0206545 | DCF110P | 3/8" NPT female | £35.76 |
| VAC-0206549 | DCF110P | T-slot | £40.15 |

DURAFLEX BFF RANGE



FRICION SUCTION CUP POLYURETHANE 55/60

5020

| PART NUMBER | MODEL | THREAD | PRICE |
|-------------|--------|-----------------------------------|--------|
| VAC-0206918 | BFF30P | 1/4" BSPP female | £34.07 |
| VAC-0206908 | BFF30P | 3/8" BSPP female | £34.07 |
| VAC-0206599 | BFF30P | 3/8" BSPP female plastic | £34.07 |
| VAC-0201821 | BFF30P | 3/8" BSPP male / 1/8" NPSF female | £34.07 |
| VAC-0206915 | BFF30P | 3/8" NPT female | £34.07 |
| VAC-0206924 | BFF30P | T-slot | £38.45 |
| VAC-0121427 | BFF40P | M10 x 1.5 male | £36.03 |
| VAC-0206940 | BFF40P | 1/4" BSPP female | £36.03 |
| VAC-0118992 | BFF40P | 3/8" BSPP female | £36.03 |
| VAC-0200697 | BFF40P | 3/8" BSPP female, 17 mm | £36.03 |
| VAC-0122278 | BFF40P | 3/8" NPT female | £36.03 |
| VAC-0121428 | BFF60P | M10 x 1.5 male | £35.18 |
| VAC-0206941 | BFF60P | 1/4" BSPP female | £35.18 |
| VAC-0118995 | BFF60P | 3/8" BSPP female | £35.18 |
| VAC-0124742 | BFF60P | 3/8" BSPP female plastic | £35.18 |
| VAC-0200699 | BFF60P | 3/8" BSPP female, 17 mm | £35.18 |
| VAC-0122279 | BFF60P | 3/8" NPT female | £35.18 |

POLYURETHANE 55/60 WITH MESH FILTER

| | | | |
|-------------|--------|----------------|--------|
| VAC-0118991 | BFF40P | 3/8" BSPP male | £36.03 |
| VAC-0206925 | BFF40P | T-slot | £40.42 |
| VAC-0118994 | BFF60P | 3/8" BSPP male | £35.18 |
| VAC-0206933 | BFF60P | T-slot | £39.57 |

DURAFLEX OBF RANGE



FRICION SUCTION CUP POLYURETHANE 55/60

5020

| PART NUMBER | MODEL | THREAD | PRICE |
|-------------|------------|-------------------------|--------|
| VAC-0121436 | OBF35x90P | M10 x 1.5 male | £50.58 |
| VAC-0119123 | OBF35x90P | 3/8" BSPP female | £50.58 |
| VAC-0200694 | OBF35x90P | 3/8" BSPP female, 17 mm | £50.58 |
| VAC-0122287 | OBF35x90P | 3/8" NPT female | £50.58 |
| VAC-0121437 | OBF50x140P | M10 x 1.5 male | £57.36 |
| VAC-0119127 | OBF50x140P | 3/8" BSPP female | £57.36 |
| VAC-0122288 | OBF50x140P | 3/8" NPT female | £57.36 |
| VAC-0121438 | OBF65x170P | M10 x 1.5 male | £71.29 |
| VAC-0119131 | OBF65x170P | 3/8" BSPP female | £71.29 |
| VAC-0122289 | OBF65x170P | 3/8" NPT female | £71.29 |

POLYURETHANE 55/60 WITH MESH FILTER

| | | | |
|-------------|------------|----------------|--------|
| VAC-0119121 | OBF35x90P | 3/8" BSPP male | £50.58 |
| VAC-0119125 | OBF50x140P | 3/8" BSPP male | £57.36 |
| VAC-0119129 | OBF65x170P | 3/8" BSPP male | £71.29 |

FCF FEATURES

The FCF design is suitable for slightly domed and flat surfaces, such as those encountered when handling metal sheets in press lines. The suction cups have support cleats that prevent thin objects from being disfigured.

OCF FEATURES

The OCF design is suitable for oblong objects with slightly domed and flat surfaces, such as those encountered with body parts in the automotive industry. The suction cups have support cleats that prevent thin objects from being disfigured.

FEATURES

The BFFT design is the best choice for very thin metal sheets (0.6 – 0.8 mm) to avoid risk of dents. The cups work well on flat and uneven / curved surfaces or if level compensation is needed, such as de-stacking applications. The inner support, made of dual hardness to eliminate risk of dent marks, gives stability and good grip during movement in any direction.

DURAFLEX FCF RANGE



FRICION SUCTION CUP
POLYURETHANE 55/60

5020

| PART NUMBER | MODEL | THREAD | PRICE |
|-------------|---------|-----------------------------------|--------|
| VAC-0206919 | FCF25P | 1/4" BSPP female | £21.21 |
| VAC-0206909 | FCF25P | 3/8" BSPP female | £21.21 |
| VAC-0206895 | FCF25P | 3/8" BSPP female plastic | £21.21 |
| VAC-0201827 | FCF25P | 3/8" BSPP male / 1/8" NPSF female | £21.21 |
| VAC-0206916 | FCF25P | 3/8" NPT female | £21.21 |
| VAC-0206926 | FCF25P | T-slot | £25.60 |
| VAC-0121431 | FCF35P | M10 x 1.5 male | £22.94 |
| VAC-0118981 | FCF35P | 3/8" BSPP female | £22.94 |
| VAC-0206893 | FCF35P | 3/8" BSPP female plastic | £22.94 |
| VAC-0200652 | FCF35P | 3/8" BSPP female, 17 mm | £22.94 |
| VAC-0122282 | FCF35P | 3/8" NPT female | £22.94 |
| VAC-0121432 | FCF50P | M10 x 1.5 male | £19.88 |
| VAC-0206936 | FCF50P | 1/4" BSPP female | £19.88 |
| VAC-0118986 | FCF50P | 3/8" BSPP female | £19.88 |
| VAC-0206606 | FCF50P | 3/8" BSPP female plastic | £19.88 |
| VAC-0200685 | FCF50P | 3/8" BSPP female, 17 mm | £19.88 |
| VAC-0122283 | FCF50P | 3/8" NPT female | £19.88 |
| VAC-0121433 | FCF75P | M10 x 1.5 male | £27.59 |
| VAC-0206937 | FCF75P | 1/4" BSPP female | £27.59 |
| VAC-0118429 | FCF75P | 3/8" BSPP female | £27.59 |
| VAC-0124718 | FCF75P | 3/8" BSPP female plastic | £27.59 |
| VAC-0200687 | FCF75P | 3/8" BSPP female, 17 mm | £27.59 |
| VAC-0122284 | FCF75P | 3/8" NPT female | £27.59 |
| VAC-0121385 | FCF100P | M10 x 1.5 male | £31.73 |
| VAC-0206938 | FCF100P | 1/4" BSPP female | £31.73 |
| VAC-0124669 | FCF100P | 3/8" BSPP female plastic | £31.73 |
| VAC-0200690 | FCF100P | 3/8" BSPP female, 17 mm | £31.73 |
| VAC-0122285 | FCF100P | 3/8" NPT female | £29.57 |
| VAC-0121435 | FCF125P | M10 x 1.5 male | £37.56 |
| VAC-0206939 | FCF125P | 1/4" BSPP female | £37.56 |
| VAC-0118437 | FCF125P | 3/8" BSPP female | £37.56 |
| VAC-0124787 | FCF125P | 3/8" BSPP female plastic | £37.56 |
| VAC-0200693 | FCF125P | 3/8" BSPP female, 17 mm | £37.56 |
| VAC-0122286 | FCF125P | 3/8" NPT female | £37.56 |

POLYURETHANE 55/60 WITH MESH FILTER

| | | | |
|-------------|---------|----------------|--------|
| VAC-0119913 | FCF35P | 3/8" BSPP male | £22.94 |
| VAC-0206927 | FCF35P | T-slot | £27.33 |
| VAC-0118985 | FCF50P | 3/8" BSPP male | £19.88 |
| VAC-0206929 | FCF50P | T-slot | £24.20 |
| VAC-0206930 | FCF75P | T-slot | £31.98 |
| VAC-0206931 | FCF100P | T-slot | £36.12 |
| VAC-0118435 | FCF125P | 3/8" BSPP male | £37.56 |
| VAC-0206932 | FCF125P | T-slot | £41.95 |

DURAFLEX OCF RANGE



FRICION SUCTION CUP
POLYURETHANE 55/60

5020

| PART NUMBER | MODEL | THREAD | PRICE |
|-------------|------------|------------------|--------|
| VAC-0121847 | OCF20x80P | 3/8" BSPP male | £33.40 |
| VAC-0122455 | OCF20x80P | 3/8" BSPP female | £33.40 |
| VAC-0121859 | OCF20x80P | 3/8" NPT female | £33.40 |
| VAC-0122456 | OCF30x90P | 3/8" BSPP male | £37.96 |
| VAC-0121786 | OCF30x90P | 3/8" BSPP female | £37.96 |
| VAC-0122459 | OCF30x90P | 3/8" NPT female | £37.96 |
| VAC-0122457 | OCF40x110P | 3/8" BSPP male | £42.02 |
| VAC-0122860 | OCF40x110P | 3/8" BSPP female | £42.02 |
| VAC-0121865 | OCF40x110P | 3/8" NPT female | £42.02 |

DURAFLEX BFFT RANGE



FRICION SUCTION CUP
POLYURETHANE 60/60/30

5020

| PART NUMBER | MODEL | THREAD | PRICE |
|-------------|---------|--------------------------|--------|
| VAC-0206523 | BFFT50P | 3/8" BSPP female plastic | £36.87 |
| VAC-0206528 | BFFT70P | 3/8" BSPP female plastic | £38.37 |
| VAC-0206533 | BFFT90P | 3/8" BSPP female plastic | £40.51 |

POLYURETHANE 60/60/30 WITH MESH FILTER

| | | | |
|-------------|---------|-----------------------------------|--------|
| VAC-0206791 | BFFT50P | 1/4" BSPP female | £36.87 |
| VAC-0206522 | BFFT50P | 3/8" BSPP female | £36.87 |
| VAC-0206521 | BFFT50P | 3/8" BSPP male / 1/8" NPSF female | £36.87 |
| VAC-0206519 | BFFT50P | 3/8" NPT female | £36.87 |
| VAC-0206524 | BFFT50P | T-slot | £41.26 |
| VAC-0206792 | BFFT70P | 1/4" BSPP female | £38.37 |
| VAC-0206527 | BFFT70P | 3/8" BSPP female | £38.37 |
| VAC-0206526 | BFFT70P | 3/8" BSPP male / 1/8" NPSF female | £38.37 |
| VAC-0206525 | BFFT70P | 3/8" NPT female | £38.37 |
| VAC-0206529 | BFFT70P | T-slot | £42.76 |
| VAC-0206793 | BFFT90P | 1/4" BSPP female | £40.51 |
| VAC-0206532 | BFFT90P | 3/8" BSPP female | £40.51 |
| VAC-0206531 | BFFT90P | 3/8" BSPP male / 1/8" NPSF female | £40.51 |
| VAC-0206530 | BFFT90P | 3/8" NPT female | £40.51 |
| VAC-0206534 | BFFT90P | T-slot | £44.90 |

BX FEATURES

Suitable for level adjustment and for uneven and porous surfaces, such as cardboard, plastic, glass, metals, etc. Polyurethane Yellow / Green offers a softer sealing lip, yet strong and stable bellows-unsealed media.

Specially formulated to offer elasticity of rubber with wear resistance of Polyurethane

Pliable suction cup with high stability and durability

Silicone and mark free

Hard wear resistance

BL FEATURES

Suction cup with long bellows

Suitable for level adjustment

Lifting movement to separate small and thin objects

Less suitable when the lifting force is parallel to the surface of the object

For direct food contact

Ideal for use with baked goods

Metal detectable

DURAFLEX BX RANGE



DURAFLEX BL RANGE



SUCTION CUP WITH 2 1/2" BELLOWS

POLYURETHANE 30/60

5020

| PART NUMBER | MODEL | THREAD | PRICE |
|-------------|-------|------------------|--------|
| VAC-0122869 | BX10P | M5 male | £9.99 |
| VAC-0124344 | BX15P | M5 male | £12.11 |
| VAC-0125104 | BX20P | M5 female | £20.19 |
| VAC-0125108 | BX20P | 1/8" BSPP male | £20.52 |
| VAC-0106293 | BX75P | 1/8" NPSF female | £44.97 |

SUCTION CUP WITH LONG BELLOWS

CHLOROPRENE

5020

| PART NUMBER | MODEL | THREAD | PRICE |
|-------------|--------|-----------|--------|
| VAC-0101193 | BL20-2 | M5 female | £13.52 |

POLYURETHANE 30/60 WITH FILTER

| | | | |
|-------------|--------|----------------------------|---------|
| VAC-0109404 | BX25P | M5 female | £27.55 |
| VAC-0109402 | BX25P | 1/8" BSPP male / M5 female | £27.55 |
| VAC-0106604 | BX35P | 1/8" NPSF female | £32.82 |
| VAC-0104727 | BX52P | 1/8" NPSF female | £39.90 |
| VAC-0107151 | BX75P | 3/8" BSPP male | £57.94 |
| VAC-0108273 | BX100P | 3/8" BSPP male | £103.47 |

CHLOROPRENE WITH MESH FILTER

| | | | |
|-------------|--------|------------------|--------|
| VAC-0101194 | BL20-2 | 1/8" BSPP male | £13.85 |
| VAC-0101501 | BL30-2 | 1/8" NPSF female | £18.66 |
| VAC-0101496 | BL30-2 | 1/4" BSPP male | £18.66 |
| VAC-0101527 | BL40-2 | 1/8" NPSF female | £21.84 |
| VAC-0101522 | BL40-2 | 1/4" BSPP male | £21.84 |
| VAC-0101701 | BL50-2 | 1/8" NPSF female | £26.67 |
| VAC-0101696 | BL50-2 | 1/4" BSPP male | £26.67 |

SILICONE

| | | | |
|-------------|--------|-----------|--------|
| VAC-0101204 | BL20-2 | M5 female | £18.34 |
|-------------|--------|-----------|--------|

SILICONE WITH MESH FILTER

| | | | |
|-------------|--------|------------------|--------|
| VAC-0101205 | BL20-2 | 1/8" BSPP male | £18.67 |
| VAC-0101514 | BL30-2 | 1/8" NPSF female | £24.66 |
| VAC-0101509 | BL30-2 | 1/4" BSPP male | £24.66 |
| VAC-0101540 | BL40-2 | 1/8" NPSF female | £30.01 |
| VAC-0101535 | BL40-2 | 1/4" BSPP male | £30.01 |
| VAC-0101714 | BL50-2 | 1/8" NPSF female | £36.83 |
| VAC-0101709 | BL50-2 | 1/4" BSPP male | £36.83 |

POLYURETHANE 30/60 WITH MESH FILTER

| | | | |
|-------------|-------|----------------|--------|
| VAC-0114449 | BX35P | 1/4" BSPP male | £33.35 |
| VAC-0107377 | BX35P | 3/8" BSPP male | £33.35 |
| VAC-0106045 | BX52P | 1/4" BSPP male | £40.70 |
| VAC-0106740 | BX52P | 3/8" BSPP male | £40.70 |

POLYURETHANE 60

| | | | |
|-------------|-------|----------------|--------|
| VAC-0122967 | BX10P | M5 male | £9.10 |
| VAC-0124345 | BX15P | M5 male | £10.99 |
| VAC-0125109 | BX20P | M5 female | £19.07 |
| VAC-0125112 | BX20P | 1/8" BSPP male | £19.41 |

POLYURETHANE 60 WITH FILTER

| | | | |
|-------------|--------|----------------------------|--------|
| VAC-0109400 | BX25P | M5 female | £25.63 |
| VAC-0109398 | BX25P | 1/8" BSPP male / M5 female | £25.63 |
| VAC-0107561 | BX35P | 1/8" NPSF female | £30.68 |
| VAC-0107383 | BX52P | 1/8" NPSF female | £36.90 |
| VAC-0107149 | BX75P | 3/8" BSPP male | £53.00 |
| VAC-0108341 | BX100P | 3/8" BSPP male | £95.57 |

POLYURETHANE 60 WITH MESH FILTER

| | | | |
|-------------|-------|----------------|--------|
| VAC-0107379 | BX35P | 3/8" BSPP male | £31.21 |
| VAC-0107385 | BX52P | 1/4" BSPP male | £37.70 |
| VAC-0107387 | BX52P | 3/8" BSPP male | £37.70 |

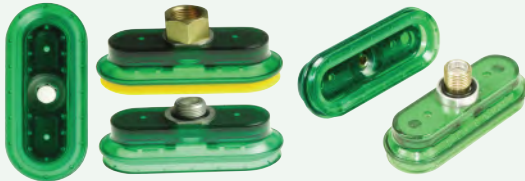
OB FEATURES

Oval suction cup with short bellows. Suitable for level adjustment. Can handle objects with height differences and varying shapes, for example embossed or corrugated plates. Lifting movement to separate small and thin objects.

OF FEATURES

Flat, oval suction cup with cleats. Suitable for flat and rough surfaces. Fair stability and little inherent movement. Recommended when the lifting force is parallel to the surface of the object. Cleats prevent thin, sensitive objects from being deformed and give extra friction when the lifting force is parallel to the surface of the object.

DURAFLEX OB RANGE



DURAFLEX OF RANGE



SUCTION CUP WITH SHORT BELLOWS

POLYURETHANE 60

5020

| PART NUMBER | MODEL | THREAD | PRICE |
|-------------|-----------|------------------|--------|
| VAC-0115291 | OB20x60P | 1/8" BSPP male | £38.49 |
| VAC-0108672 | OB35x90P | 3/8" NPSF female | £46.13 |
| VAC-0108674 | OB50x140P | 3/8" NPSF female | £68.56 |
| VAC-0108676 | OB65x170P | 3/8" NPSF female | £98.04 |

POLYURETHANE 60 WITH MESH FILTER

| | | | |
|-------------|-----------|----------------|--------|
| VAC-0108673 | OB35x90P | 3/8" BSPP male | £46.13 |
| VAC-0108675 | OB50x140P | 3/8" BSPP male | £68.56 |
| VAC-0108677 | OB65x170P | 3/8" BSPP male | £98.04 |

POLYURETHANE 30/60

| | | | |
|-------------|-----------|------------------|---------|
| VAC-0109857 | OB35x90P | 3/8" NPSF female | £48.82 |
| VAC-0109859 | OB50x140P | 3/8" NPSF female | £76.55 |
| VAC-0109861 | OB65x170P | 3/8" NPSF female | £109.39 |

POLYURETHANE 30/60 WITH MESH FILTER

| | | | |
|-------------|-----------|----------------|---------|
| VAC-0109856 | OB35x90P | 3/8" BSPP male | £48.82 |
| VAC-0109858 | OB50x140P | 3/8" BSPP male | £76.55 |
| VAC-0109860 | OB65x170P | 3/8" BSPP male | £109.39 |

VAC-0115291 comes complete with swivel fitting.

FLAT CONCAVE SUCTION CUP WITH CLEATS

POLYURETHANE 40

5020

| PART NUMBER | MODEL | THREAD | PRICE |
|-------------|-----------|------------------|--------|
| VAC-0115304 | OF25x70P | 3/8" BSPP male | £29.01 |
| VAC-0109851 | OF40x110P | 3/8" NPSF female | £40.36 |
| VAC-0109853 | OF55x150P | 3/8" NPSF female | £54.59 |
| VAC-0109855 | OF70x175P | 3/8" NPSF female | £76.64 |

POLYURETHANE 40 WITH MESH FILTER

| | | | |
|-------------|-----------|----------------|--------|
| VAC-0109850 | OF40x110P | 3/8" BSPP male | £40.36 |
| VAC-0109852 | OF55x150P | 3/8" BSPP male | £54.59 |
| VAC-0109854 | OF70x175P | 3/8" BSPP male | £76.64 |

POLYURETHANE 50

| | | | |
|-------------|----------|----------------|--------|
| VAC-0110084 | OF10x30P | M5 male | £19.26 |
| VAC-0115285 | OF15x45P | 1/8" BSPP male | £25.80 |

POLYURETHANE 60

| | | | |
|-------------|-----------|------------------|--------|
| VAC-0115311 | OF25x70P | 3/8" BSPP male | £29.01 |
| VAC-0108265 | OF40x110P | 3/8" NPSF female | £40.36 |
| VAC-0108036 | OF55x150P | 3/8" NPSF female | £53.05 |
| VAC-0108264 | OF70x175P | 3/8" NPSF female | £74.47 |

POLYURETHANE 60 WITH MESH FILTER

| | | | |
|-------------|-----------|----------------|--------|
| VAC-0108263 | OF40x110P | 3/8" BSPP male | £40.36 |
| VAC-0108030 | OF55x150P | 3/8" BSPP male | £53.05 |
| VAC-0108671 | OF70x175P | 3/8" BSPP male | £74.47 |

VAC-0115304 comes complete with swivel fitting.

B-BL FEATURES

Cups of food contact materials (FCM), suitable for handling bread and pastries. In addition to threaded, separable stainless steel and plastic fittings, all cups are available with a retainer clip, which will fit standard bread depanners. The BBL cups can handle great differences in levels, due to the long bellows. The silicone material complies with FDA 21 CFR 177.2600 and EU 1935/2004. Not suitable for use with deep vacuum levels.

F-BX FEATURES

The 2½ bellows F-BX cups of food contact materials (FCM) have a "funnel" shape design with very thin lips, but with stable body/bellows. This allows for excellent grip on different food parts with irregular surfaces and different heights, even at fast speeds and accelerations. F-BX is suitable for frozen food as well as raw food. The silicone material complies with FDA 21 CFR 177.2600 and EU 1935/2004.

B-BL FOOD RANGE



F-BX FOOD RANGE



FCM SUCTION CUP WITH 4½ BELLOWS

SILICONE DETECTABLE

5020

| PART NUMBER | MODEL | THREAD | PRICE |
|-------------|----------|----------|-------|
| VAC-0206373 | B-BL30-2 | Pad Only | £4.16 |
| VAC-0202850 | B-BL40-2 | Pad Only | £4.75 |
| VAC-0206374 | B-BL60-2 | Pad Only | £9.50 |

FCM SUCTION CUP WITH 2½ BELLOWS

SILICONE DETECTABLE

5020

| PART NUMBER | MODEL | THREAD | PRICE |
|-------------|--------|----------|--------|
| VAC-0206202 | F-BX10 | Pad Only | £7.13 |
| VAC-0206203 | F-BX15 | Pad Only | £7.72 |
| VAC-0206204 | F-BX20 | Pad Only | £8.32 |
| VAC-0206205 | F-BX25 | Pad Only | £8.91 |
| VAC-0206206 | F-BX35 | Pad Only | £10.10 |

SILICONE DETECTABLE / STAINLESS STEEL

| | | | |
|-------------|----------|----------------|--------|
| VAC-0207092 | B-BL30-2 | 3/8" BSPP male | £21.98 |
| VAC-0207094 | B-BL30-2 | 3/8" NPT male | £21.98 |
| VAC-0207093 | B-BL30-2 | 1/2" BSPP male | £21.98 |
| VAC-0207095 | B-BL30-2 | 1/2" NPT male | £21.98 |
| VAC-0207101 | B-BL40-2 | 3/8" BSPP male | £22.57 |
| VAC-0207103 | B-BL40-2 | 3/8" NPT male | £22.57 |
| VAC-0207104 | B-BL40-2 | 1/2" NPT male | £22.57 |
| VAC-0207110 | B-BL60-2 | 3/8" BSPP male | £27.32 |
| VAC-0207112 | B-BL60-2 | 3/8" NPT male | £27.32 |
| VAC-0207111 | B-BL60-2 | 1/2" BSPP male | £27.32 |
| VAC-0207113 | B-BL60-2 | 1/2" NPT male | £27.32 |

SILICONE DETECTABLE / STAINLESS STEEL

| | | | |
|-------------|--------|----------------|--------|
| VAC-0207049 | F-BX10 | M5 male | £20.39 |
| VAC-0207050 | F-BX10 | 1/8" BSPP male | £20.19 |
| VAC-0207051 | F-BX10 | 1/8" NPT male | £20.19 |
| VAC-0207055 | F-BX15 | 1/8" BSPP male | £20.79 |
| VAC-0207057 | F-BX15 | 1/8" NPT male | £20.79 |
| VAC-0207056 | F-BX15 | 1/4" BSPP male | £20.79 |
| VAC-0207058 | F-BX15 | 1/4" NPT male | £20.79 |
| VAC-0207063 | F-BX20 | 1/8" BSPP male | £21.38 |
| VAC-0207065 | F-BX20 | 1/8" NPT male | £21.38 |
| VAC-0207064 | F-BX20 | 1/4" BSPP male | £21.38 |
| VAC-0207066 | F-BX20 | 1/4" NPT male | £21.38 |
| VAC-0207071 | F-BX25 | 1/4" BSPP male | £21.98 |
| VAC-0207073 | F-BX25 | 1/4" NPT male | £21.98 |
| VAC-0207072 | F-BX25 | 3/8" BSPP male | £21.98 |
| VAC-0207074 | F-BX25 | 3/8" NPT male | £21.98 |
| VAC-0207079 | F-BX35 | 1/4" BSPP male | £23.16 |
| VAC-0207081 | F-BX35 | 1/4" NPT male | £23.16 |
| VAC-0207080 | F-BX35 | 3/8" BSPP male | £23.16 |
| VAC-0207082 | F-BX35 | 3/8" NPT male | £23.16 |

SILICONE DETECTABLE / COMPOSITE

| | | | |
|-------------|----------|----------------|--------|
| VAC-0207097 | B-BL30-2 | 3/8" BSPP male | £16.04 |
| VAC-0207099 | B-BL30-2 | 3/8" NPT male | £16.04 |
| VAC-0207096 | B-BL30-2 | 1/2" BSPP male | £16.04 |
| VAC-0207098 | B-BL30-2 | 1/2" NPT male | £16.04 |
| VAC-0207100 | B-BL30-2 | Retainer clip | £5.99 |
| VAC-0207105 | B-BL40-2 | 3/8" BSPP male | £16.63 |
| VAC-0207107 | B-BL40-2 | 3/8" NPT male | £16.63 |
| VAC-0207106 | B-BL40-2 | 1/2" BSPP male | £16.63 |
| VAC-0207108 | B-BL40-2 | 1/2" NPT male | £16.63 |
| VAC-0207109 | B-BL40-2 | Retainer clip | £6.58 |
| VAC-0207114 | B-BL60-2 | 3/8" BSPP male | £21.38 |
| VAC-0207117 | B-BL60-2 | 3/8" NPT male | £21.38 |
| VAC-0207115 | B-BL60-2 | 1/2" BSPP male | £21.38 |
| VAC-0207118 | B-BL60-2 | 1/2" NPT male | £21.38 |
| VAC-0207119 | B-BL60-2 | Retainer clip | £11.33 |

SILICONE DETECTABLE / COMPOSITE

| | | | |
|-------------|--------|----------------|--------|
| VAC-0207052 | F-BX10 | M5 male | £14.40 |
| VAC-0207053 | F-BX10 | 1/8" BSPP male | £14.26 |
| VAC-0207054 | F-BX10 | 1/8" NPT male | £14.26 |
| VAC-0207059 | F-BX15 | 1/8" BSPP male | £14.85 |
| VAC-0207061 | F-BX15 | 1/8" NPT male | £14.85 |
| VAC-0207060 | F-BX15 | 1/4" BSPP male | £14.85 |
| VAC-0207062 | F-BX15 | 1/4" NPT male | £14.85 |
| VAC-0207067 | F-BX20 | 1/8" BSPP male | £15.44 |
| VAC-0207069 | F-BX20 | 1/8" NPT male | £15.44 |
| VAC-0207068 | F-BX20 | 1/4" BSPP male | £15.44 |
| VAC-0207070 | F-BX20 | 1/4" NPT male | £15.44 |
| VAC-0207075 | F-BX25 | 1/4" BSPP male | £16.04 |
| VAC-0207077 | F-BX25 | 1/4" NPT male | £16.04 |
| VAC-0207076 | F-BX25 | 3/8" BSPP male | £16.04 |
| VAC-0207078 | F-BX25 | 3/8" NPT male | £16.04 |
| VAC-0207083 | F-BX35 | 1/4" BSPP male | £17.22 |
| VAC-0207085 | F-BX35 | 1/4" NPT male | £17.22 |
| VAC-0207084 | F-BX35 | 3/8" BSPP male | £17.22 |
| VAC-0207086 | F-BX35 | 3/8" NPT male | £17.22 |

F-OB FEATURES

The small oval bellow cups of food contact material (FCM) are suitable for the handling of long and narrow food objects when maximum lifting force is desired. They are suitable for irregular surfaces and when level compensation is desired. This programme of oval cups has characteristics that are especially suited for food contact handling. The silicone material complies with FDA 21 CFR 177.2600 and EU 1935/2004.

FEATURES

The deep cups of food contact materials (FCM) are suitable for handling pralines and confectionery, such as chocolate. The deep design with thin and long lip is excellent for curved and/or irregular surfaces, found on pralines. Can get a good grip over corners. Not suitable for flat surfaces. The silicone material complies with FDA 21 CFR 177.2600 and EU 1935/2004.

F-OB FOOD RANGE



P-D FOOD RANGE



FCM SUCTION CUP WITH 1½ BELLOWS SILICONE DETECTABLE / STAINLESS STEEL

5020

| PART NUMBER | MODEL | THREAD | PRICE |
|-------------|------------|----------------|--------|
| VAC-0205912 | F-OB 10x30 | 1/8" BSPP male | £41.99 |
| VAC-0205920 | F-OB 30x60 | 1/8" BSPP male | £53.98 |
| VAC-0205923 | F-OB 30x60 | 1/4" BSPP male | £53.98 |

SILICONE / STAINLESS STEEL

| | | | |
|-------------|------------|----------------|--------|
| VAC-0207044 | F-OB 10x30 | 1/8" BSPP male | £35.99 |
|-------------|------------|----------------|--------|

SILICONE DETECTABLE / STAINLESS STEEL

| | | | |
|-------------|------------|----------------|--------|
| VAC-0205918 | F-OB 20x40 | 1/8" BSPP male | £47.99 |
| VAC-0205915 | F-OB 20x40 | 1/4" BSPP male | £47.99 |

SILICONE NON-DETECTABLE / STAINLESS STEEL

| | | | |
|-------------|------------|----------------|--------|
| VAC-0207046 | F-OB 20x40 | 1/8" BSPP male | £41.99 |
| VAC-0207045 | F-OB 20x40 | 1/4" BSPP male | £41.99 |
| VAC-0207047 | F-OB 30x60 | 1/8" BSPP male | £47.99 |
| VAC-0207048 | F-OB 30x60 | 1/4" BSPP male | £47.99 |

FCM SUCTION CUP WITH 1½ BELLOWS SILICONE DETECTABLE

5020

| PART NUMBER | MODEL | THREAD | PRICE |
|-------------|-------|----------|--------|
| VAC-0206371 | P-D27 | Pad Only | £8.91 |
| VAC-0206372 | P-D36 | Pad Only | £10.10 |

SILICONE DETECTABLE / STAINLESS STEEL

| | | | |
|-------------|-------|----------------|--------|
| VAC-0207022 | P-D27 | 1/8" BSPP male | £21.98 |
| VAC-0207024 | P-D27 | 1/8" NPT male | £21.98 |
| VAC-0207021 | P-D27 | 1/4" BSPP male | £21.98 |
| VAC-0207023 | P-D27 | 1/4" NPT male | £21.98 |
| VAC-0207030 | P-D36 | 1/8" BSPP male | £23.16 |
| VAC-0207032 | P-D36 | 1/8" NPT Male | £23.16 |
| VAC-0207029 | P-D36 | 1/4" BSPP male | £23.16 |
| VAC-0207031 | P-D36 | 1/4" NPT Male | £23.16 |

SILICONE DETECTABLE / COMPOSITE

| | | | |
|-------------|-------|----------------|--------|
| VAC-0207026 | P-D27 | 1/8" BSPP male | £16.04 |
| VAC-0207028 | P-D27 | 1/8" NPT male | £16.04 |
| VAC-0207025 | P-D27 | 1/4" BSPP male | £16.04 |
| VAC-0207027 | P-D27 | 1/4" NPT male | £16.04 |
| VAC-0207034 | P-D36 | 1/8" BSPP male | £17.22 |
| VAC-0207036 | P-D36 | 1/8" NPT male | £17.22 |
| VAC-0207033 | P-D36 | 1/4" BSPP male | £17.22 |
| VAC-0207035 | P-D36 | 1/4" NPT male | £17.22 |



B RANGE

B FEATURES

- Suction cup with short bellows
- Lifting movement to separate small and thin objects
- Only lightweight objects should be handled when the lifting force is parallel to the surface
- Suitable for level adjustment



SUCTION CUP WITH SHORT BELLOWS CHLOROPRENE

5020

| PART NUMBER | MODEL | THREAD | PRICE |
|-------------|-------|-----------|--------|
| VAC-3250082 | B5 | M5 male | £3.58 |
| VAC-3250083 | B8 | M5 male | £3.94 |
| VAC-3150023 | B10-2 | M5 male | £4.37 |
| VAC-3250037 | B15-2 | M5 male | £4.99 |
| VAC-0101160 | B20 | M5 female | £11.79 |

CHLOROPRENE WITH MESH FILTER

| | | | |
|-------------|-------|------------------|--------|
| VAC-0101161 | B20 | 1/8" BSPP male | £12.13 |
| VAC-0101423 | B30-2 | 1/8" NPSF female | £16.15 |
| VAC-0101418 | B30-2 | 1/4" BSPP male | £16.15 |
| VAC-0101420 | B30-2 | 3/8" BSPP male | £16.15 |
| VAC-0101462 | B40 | 1/8" NPSF female | £18.39 |
| VAC-0101457 | B40 | 1/4" BSPP male | £18.39 |
| VAC-0101459 | B40 | 3/8" BSPP male | £18.39 |
| VAC-0101649 | B50 | 1/8" NPSF female | £22.47 |
| VAC-0101644 | B50 | 1/4" BSPP male | £22.47 |
| VAC-0101646 | B50 | 3/8" BSPP male | £22.47 |
| VAC-0101854 | B75 | 1/8" NPSF female | £51.25 |
| VAC-0101855 | B75 | 3/8" BSPP female | £51.25 |
| VAC-0101857 | B75 | 1/2" BSPP female | £51.25 |

SILICONE

| | | | |
|--------------|-------|-----------|--------|
| VAC-3250082S | B5 | M5 male | £6.72 |
| VAC-3250083S | B8 | M5 male | £7.43 |
| VAC-3150023S | B10-2 | M5 male | £8.46 |
| VAC-3250037S | B15-2 | M5 male | £9.26 |
| VAC-0101171 | B20 | M5 female | £17.00 |

SILICONE WITH MESH FILTER

| | | | |
|-------------|--------|------------------|---------|
| VAC-0101172 | B20 | 1/8" BSPP male | £17.33 |
| VAC-0101436 | B30-2 | 1/8" NPSF female | £22.51 |
| VAC-0101431 | B30-2 | 1/4" BSPP male | £22.51 |
| VAC-0101433 | B30-2 | 3/8" BSPP male | £22.51 |
| VAC-0101475 | B40 | 1/8" NPSF female | £27.88 |
| VAC-0101470 | B40 | 1/4" BSPP male | £27.88 |
| VAC-0101472 | B40 | 3/8" BSPP male | £27.88 |
| VAC-0101636 | B50 | 1/8" NPSF female | £33.31 |
| VAC-0101631 | B50 | 1/4" BSPP male | £33.31 |
| VAC-0101633 | B50 | 3/8" BSPP mal | £33.31 |
| VAC-0101850 | B75 | 1/8" NPSF female | £68.29 |
| VAC-0101851 | B75 | 3/8" BSPP female | £68.29 |
| VAC-0101853 | B75 | 1/2" BSPP female | £68.29 |
| VAC-0101884 | B110 | 3/8" BSPP female | £109.41 |
| VAC-0101886 | B110 | 1/2" BSPP female | £109.41 |
| VAC-0101928 | B150 | 1/2" BSPP female | £150.27 |
| VAC-0101929 | B150 | 3/4" BSPP female | £150.27 |
| VAC-0101662 | B50-2 | 1/8" NPSF female | £35.84 |
| VAC-0101657 | B50-2 | 1/4" BSPP male | £35.84 |
| VAC-0101659 | B50-2 | 3/8" BSPP male | £35.84 |
| VAC-0101858 | B75-2 | 1/8" NPSF female | £71.17 |
| VAC-0101859 | B75-2 | 3/8" BSPP female | £71.17 |
| VAC-0101861 | B75-2 | 1/2" BSPP female | £71.17 |
| VAC-0101896 | B110-2 | 3/8" BSPP female | £113.36 |
| VAC-0101898 | B110-2 | 1/2" BSPP female | £113.36 |

HNBR

| PART NUMBER | MODEL | THREAD | PRICE |
|-------------|-------|-----------|--------|
| VAC-9906875 | B20 | M5 female | £13.12 |

HNBR WITH MESH FILTER

| | | | |
|-------------|-------|------------------|---------|
| VAC-9906877 | B20 | 1/8" BSPP male | £13.46 |
| VAC-0108078 | B30-2 | 1/8" NPSF female | £32.86 |
| VAC-0108167 | B30-2 | 1/4" BSPP male | £32.86 |
| VAC-0108168 | B30-2 | 3/8" BSPP male | £32.86 |
| VAC-0108082 | B40 | 1/8" NPSF female | £37.19 |
| VAC-0108169 | B40 | 1/4" BSPP male | £37.19 |
| VAC-0108170 | B40 | 3/8" BSPP male | £37.19 |
| VAC-0108171 | B50 | 1/8" NPSF female | £47.47 |
| VAC-0108172 | B50 | 1/4" BSPP male | £47.47 |
| VAC-0108173 | B50 | 3/8" BSPP male | £47.47 |
| VAC-0108174 | B75 | 1/8" NPSF female | £81.15 |
| VAC-0108175 | B75 | 3/8" BSPP female | £81.15 |
| VAC-0108177 | B75 | 1/2" BSPP female | £81.15 |
| VAC-0108178 | B110 | 3/8" BSPP female | £134.05 |
| VAC-0108180 | B110 | 1/2" BSPP female | £134.05 |

NITRILE-PVC WITH MESH FILTER

| | | | |
|-------------|--------|------------------|---------|
| VAC-0101890 | B110 | 3/8" BSPP female | £84.08 |
| VAC-0101892 | B110 | 1/2" BSPP female | £84.08 |
| VAC-0101931 | B150 | 1/2" BSPP female | £112.69 |
| VAC-0101932 | B150 | 3/4" BSPP female | £112.69 |
| VAC-0101675 | B50-2 | 1/8" NPSF female | £25.00 |
| VAC-0101670 | B50-2 | 1/4" BSPP male | £25.00 |
| VAC-0101672 | B50-2 | 3/8" BSPP male | £25.00 |
| VAC-0101862 | B75-2 | 1/8" NPSF female | £54.32 |
| VAC-0101863 | B75-2 | 3/8" BSPP female | £54.32 |
| VAC-0101865 | B75-2 | 1/2" BSPP female | £54.32 |
| VAC-0101902 | B110-2 | 3/8" BSPP female | £88.01 |
| VAC-0101904 | B110-2 | 1/2" BSPP female | £88.01 |

F RANGE

F FEATURES

- Flat suction cup with cleats
- Suitable for flat objects
- Good stability and little inherent movement
- Recommended when the lifting force is parallel to the surface of the object
- Cleats prevent thin, sensitive objects from being deformed and gives extra friction when the lifting force is parallel



FLAT SUCTION CUP WITH CLEATS CHLOROPRENE

5020

| PART NUMBER | MODEL | THREAD | PRICE |
|-------------|-------|----------------|--------|
| VAC-3150014 | F15 | M5 male | £4.81 |
| VAC-0101259 | F20 | M5 female | £11.20 |
| VAC-0101260 | F20 | 1/8" BSPP male | £11.53 |
| VAC-0101292 | F25 | M5 female | £11.77 |
| VAC-0101293 | F25 | 1/8" BSPP male | £12.10 |
| VAC-0101325 | F30-2 | M5 female | £12.34 |
| VAC-0101326 | F30-2 | 1/8" BSPP male | £12.67 |

SILICONE

| | | | |
|--------------|-------|----------------|--------|
| VAC-3150014S | F15 | M5 male | £7.25 |
| VAC-0101270 | F20 | M5 female | £14.15 |
| VAC-0101271 | F20 | 1/8" BSPP male | £14.48 |
| VAC-0101303 | F25 | M5 female | £14.95 |
| VAC-0101304 | F25 | 1/8" BSPP male | £15.28 |
| VAC-0101341 | F30-2 | M5 female | £15.46 |
| VAC-0101342 | F30-2 | 1/8" BSPP male | £15.79 |

SILICONE WITH MESH FILTER

| | | | |
|-------------|-------|------------------|---------|
| VAC-0101553 | F40-2 | 1/8" NPSF female | £20.38 |
| VAC-0101548 | F40-2 | 1/4" BSPP male | £20.38 |
| VAC-0101550 | F40-2 | 3/8" BSPP male | £20.38 |
| VAC-0101753 | F50-2 | 1/8" NPSF female | £24.44 |
| VAC-0101748 | F50-2 | 1/4" BSPP male | £24.44 |
| VAC-0101750 | F50-2 | 3/8" BSPP male | £24.44 |
| VAC-0101866 | F75 | 1/8" NPSF female | £55.54 |
| VAC-0101867 | F75 | 3/8" BSPP female | £55.54 |
| VAC-0101908 | F110 | 3/8" BSPP female | £86.91 |
| VAC-0101910 | F110 | 1/2" BSPP female | £86.91 |
| VAC-0101934 | F150 | 1/2" BSPP female | £111.70 |
| VAC-0101935 | F150 | 3/4" BSPP female | £111.70 |

HNBR WITH MESH FILTER

| PART NUMBER | MODEL | THREAD | PRICE |
|-------------|-------|------------------|---------|
| VAC-0108181 | F50-2 | 1/8" NPSF female | £34.82 |
| VAC-0108182 | F50-2 | 1/4" BSPP male | £35.63 |
| VAC-0108183 | F50-2 | 3/8" BSPP male | £35.63 |
| VAC-0108184 | F75 | 1/8" NPSF female | £76.36 |
| VAC-0108185 | F75 | 3/8" BSPP female | £76.36 |
| VAC-0108188 | F110 | 3/8" BSPP female | £117.03 |
| VAC-0108190 | F110 | 1/2" BSPP female | £117.03 |

NITRILE-PVC WITH MESH FILTER

| | | | |
|-------------|-------|------------------|--------|
| VAC-0101572 | F40-2 | 1/8" NPSF female | £16.60 |
| VAC-0101567 | F40-2 | 1/4" BSPP male | £16.60 |
| VAC-0101569 | F40-2 | 3/8" BSPP male | £16.60 |
| VAC-0101772 | F50-2 | 1/8" NPSF female | £19.84 |
| VAC-0101767 | F50-2 | 1/4" BSPP male | £19.84 |
| VAC-0101769 | F50-2 | 3/8" BSPP male | £19.84 |
| VAC-0101873 | F75 | 1/8" NPSF female | £47.86 |
| VAC-0101874 | F75 | 3/8" BSPP female | £47.86 |
| VAC-0101915 | F110 | 3/8" BSPP female | £73.95 |
| VAC-0101917 | F110 | 1/2" BSPP female | £72.63 |
| VAC-0101938 | F150 | 1/2" BSPP female | £93.99 |
| VAC-0101939 | F150 | 3/4" BSPP female | £93.99 |

For Personal Protective
Equipment, see
pages 1053-1060.



U RANGE

U FEATURES

- Universal suction cup
- Suitable for objects with flat or slightly curved surfaces
- Also used for concave objects
- Suction cups of conductive silicone are suitable for objects with sensitivity to static electricity.



UNIVERSAL SUCTION CUP CHLOROPRENE

5020

| PART NUMBER | MODEL | THREAD | PRICE |
|-------------|-------|-----------|--------|
| VAC-3150059 | U4 | M5 male | £3.51 |
| VAC-3150003 | U6 | M5 male | £3.73 |
| VAC-3150004 | U8 | M5 male | £3.87 |
| VAC-3150005 | U10 | M5 male | £4.23 |
| VAC-3150006 | U15 | M5 male | £4.65 |
| VAC-0101373 | U20 | M5 female | £10.97 |

CHLOROPRENE WITH MESH FILTER

| | | | |
|-------------|-----|----------------|--------|
| VAC-0101374 | U20 | 1/8" BSPP male | £11.31 |
|-------------|-----|----------------|--------|

SILICONE

| | | | |
|--------------|-------|---------|-------|
| VAC-3150059S | U4 | M5 male | £5.12 |
| VAC-3150003S | U6 | M5 male | £5.50 |
| VAC-3150004S | U8 | M5 male | £5.77 |
| VAC-3150005S | U10 | M5 male | £6.29 |
| VAC-3150006S | U15 | M5 male | £7.05 |
| VAC-0117947 | U15-3 | M5 male | £6.99 |

SILICONE WITH MESH FILTER

| | | | |
|-------------|-------|------------------|--------|
| VAC-0101385 | U20 | 1/8" BSPP male | £14.06 |
| VAC-0101395 | U30 | M5 female | £15.03 |
| VAC-0101396 | U30 | 1/8" BSPP male | £15.37 |
| VAC-0101610 | U40-2 | 1/8" NPSF female | £19.85 |
| VAC-0101605 | U40-2 | 1/4" BSPP male | £19.85 |
| VAC-0101810 | U50-2 | 1/8" NPSF female | £23.67 |
| VAC-0101805 | U50-2 | 1/4" BSPP male | £23.67 |

SILICONE WITH DUAL FLOW CONTROL VALVE

| | | | |
|-------------|-----|-----------|--------|
| VAC-0101390 | U20 | M5 female | £22.64 |
|-------------|-----|-----------|--------|

CONDUCTIVE SILICONE

| PART NUMBER | MODEL | THREAD | PRICE |
|---------------|-------|-----------|--------|
| VAC-3250080SC | U2 | M2.5 male | £10.07 |
| VAC-3250081SC | U3 | M2.5 male | £10.13 |

HNBR

| | | | |
|-------------|-----|-----------|--------|
| VAC-9906863 | U10 | M5 male | £5.08 |
| VAC-9906864 | U15 | M5 male | £5.33 |
| VAC-9906867 | U20 | M5 female | £11.24 |

HNBR WITH MESH FILTER

| | | | |
|-------------|-----|----------------|--------|
| VAC-9906869 | U20 | 1/8" BSPP male | £11.57 |
|-------------|-----|----------------|--------|

NITRILE-PVC

| | | | |
|-------------|-----|-----------|--------|
| VAC-0101406 | U30 | M5 female | £12.09 |
|-------------|-----|-----------|--------|

NITRILE-PVC WITH MESH FILTER

| | | | |
|-------------|-------|------------------|--------|
| VAC-0101407 | U30 | 1/8" BSPP male | £12.42 |
| VAC-0101623 | U40-2 | 1/8" NPSF female | £16.25 |
| VAC-0101618 | U40-2 | 1/4" BSPP male | £16.25 |
| VAC-0101823 | U50-2 | 1/8" NPSF female | £19.46 |
| VAC-0101818 | U50-2 | 1/4" BSPP male | £19.46 |



FDA APPROVED – F-FDA RANGE

F-FDA FEATURES

The material used is food grade silicone. It is free from colour pigments, approved by FDA (FDA 21 CFR 177.2600.) and meets EU's regulation EU 1935/2004. The cup is soft and pliable and can operate at a wide temperature range.



FDA APPROVED – B-FDA RANGE

B-FDA FEATURES

The material is approved by FDA (FDA 21 CFR 177.2600.) and meets EU's regulation EU 1935/2004. Most of the cups are transparent with no addition of pigments.



FLAT SUCTION CUP SILICONE

5020

| PART NUMBER | MODEL | THREAD | PRICE |
|-------------|----------|---------|--------|
| VAC-9909623 | F15FCM | M5 male | £7.25 |
| VAC-0200263 | F15FCM | - | £5.61 |
| VAC-0200417 | F20FCM | - | £7.20 |
| VAC-0200439 | F25FCM | - | £8.01 |
| VAC-0200418 | F30-2FCM | - | £8.52 |
| VAC-0200437 | F40-2FCM | - | £10.84 |
| VAC-0200438 | F50-2FCM | - | £12.79 |
| VAC-0200264 | F75FCM | - | £20.53 |
| VAC-0200302 | F110FCM | - | £34.81 |
| VAC-0200265 | F150FCM | - | £52.15 |
| VAC-0201216 | F26FCM | - | £5.74 |
| VAC-0200328 | F33FCM | - | £6.26 |

FLAT SUCTION CUP SILICONE

5020

| PART NUMBER | MODEL | THREAD | PRICE |
|-------------|-----------|---------|--------|
| VAC-9909604 | B5FCM | M5 male | £6.72 |
| VAC-0200277 | B5FCM | - | £5.22 |
| VAC-9909605 | B8FCM | M5 male | £7.43 |
| VAC-0200278 | B8FCM | - | £5.94 |
| VAC-9909606 | B10-2FCM | M5 male | £8.46 |
| VAC-0200241 | B10-2FCM | - | £6.82 |
| VAC-9909607 | B15-2FCM | M5 male | £9.26 |
| VAC-0200271 | B15-2FCM | - | £7.62 |
| VAC-0200405 | B20FCM | - | £10.05 |
| VAC-0200407 | B30-2FCM | - | £12.97 |
| VAC-0200408 | B40FCM | - | £18.34 |
| VAC-0200409 | B50FCM | - | £21.66 |
| VAC-0200484 | B50-2FCM | - | £24.19 |
| VAC-0200245 | B75FCM | - | £34.43 |
| VAC-0200485 | B75-2FCM | - | £37.31 |
| VAC-0200246 | B110FCM | - | £58.63 |
| VAC-0200486 | B110-2FCM | - | £62.58 |
| VAC-0200247 | B150FCM | - | £89.94 |

SILICONE WITH MESH FILTER

| | | | |
|-------------|----------|----------------------------|---------|
| VAC-9909710 | F20FCM | 1/8" BSPP male / M5 female | £14.48 |
| VAC-9909624 | F20FCM | 1/8" BSPP male | £14.48 |
| VAC-9909711 | F25FCM | 1/8" BSPP male / M5 female | £15.28 |
| VAC-9909625 | F25FCM | 1/8" BSPP male | £15.28 |
| VAC-9909627 | F30-2FCM | 1/8" BSPP male / M5 female | £15.79 |
| VAC-9909626 | F30-2FCM | 1/8" BSPP male | £15.79 |
| VAC-9909629 | F40-2FCM | 1/8" NPSF female | £20.38 |
| VAC-9909628 | F40-2FCM | 1/4" BSPP male | £20.38 |
| VAC-9909631 | F50-2FCM | 1/8" NPSF female | £24.44 |
| VAC-9909630 | F50-2FCM | 1/4" BSPP male | £24.44 |
| VAC-0200497 | F75FCM | 3/8" BSPP female | £55.54 |
| VAC-0200504 | F110FCM | 1/2" BSPP female | £86.91 |
| VAC-0200507 | F150FCM | 1/2" BSPP female | £111.70 |
| VAC-9914251 | F26FCM | 1/8" NPSF female | £10.86 |
| VAC-9914238 | F26FCM | 1/4" BSPP male | £11.50 |
| VAC-9914252 | F33FCM | 1/8" NPSF female | £11.38 |
| VAC-9914237 | F33FCM | 1/4" BSPP male | £12.02 |

SILICONE WITH MESH FILTER

| | | | |
|-------------|-----------|----------------------------|---------|
| VAC-9909700 | B20FCM | 1/8" BSPP male / M5 female | £17.33 |
| VAC-9909608 | B20FCM | 1/8" BSPP male | £17.33 |
| VAC-9909610 | B30-2FCM | 1/8" NPSF female | £22.51 |
| VAC-9909609 | B30-2FCM | 1/4" BSPP male | £22.51 |
| VAC-9909613 | B40FCM | 1/8" NPSF female | £27.88 |
| VAC-9909611 | B40FCM | 1/4" BSPP male | £27.88 |
| VAC-9909709 | B50FCM | 1/8" NPSF female | £33.31 |
| VAC-9909614 | B50FCM | 1/4" BSPP male | £33.31 |
| VAC-9909619 | B50-2FCM | 1/8" NPSF female | £35.84 |
| VAC-9909618 | B50-2FCM | 1/4" BSPP male | £35.84 |
| VAC-0200546 | B75FCM | 3/8" BSPP female | £68.29 |
| VAC-0200531 | B75-2FCM | 3/8" BSPP female | £71.17 |
| VAC-0200551 | B110FCM | 1/2" BSPP female | £109.41 |
| VAC-0200536 | B110-2FCM | 1/2" BSPP female | £113.36 |
| VAC-0200552 | B150FCM | 1/2" BSPP female | £148.94 |

VACUUM CARTRIDGES / INTEGRATION INTRODUCTION

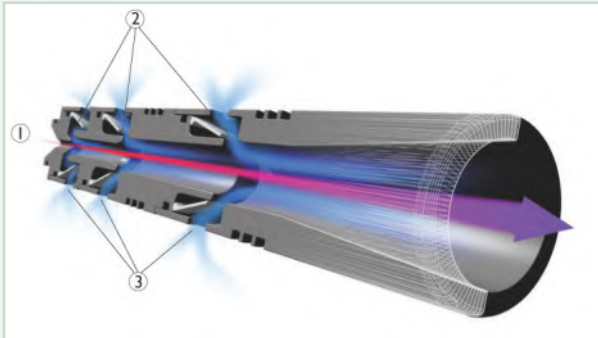
PIAB VACUUM PUMPS ARE PREDOMINANTLY BASED ON THE PATENTED COAX® TECHNOLOGY

COAX cartridges exist in several sizes (MICRO, MINI & MIDI) and models (Bi, Ti, Pi, Si & Xi), making them suitable for every application. The technology ensures excellent performance at both low and high feed pressures – ideal for situations where compressed air lines deliver air at low or fluctuating pressures. Pumps based on COAX technology can operate within the range of 0.17 to 0.60 MPa.

Integrating COAX technology directly into the machine body allows you to position vacuum power exactly where needed, making maximum use of energy and increasing speed by eliminating line losses and inefficiencies. For more information, visit www.coaxtechnology.com.

Piab's decentralised vacuum gripper system (VGS™) is a product solution integrating high quality DURAFLEX® suction cups with COAX based vacuum cartridges. The VGS makes selection, sizing and installation of a vacuum system easier. With a VGS, you will enjoy the benefits of a more cost efficient and reliable vacuum system.

Piab centralised pumps are also based on COAX technology. These are modularised pumps with COAX cartridges; the number of cartridges required depends on the vacuum flow need.



When compressed air (1) passes through the nozzles (2), air is pulled through with the stream of compressed air. "Suction" is thus created at the opening of each stage (3).

Nine

VACUUM PUMPS / GENERATORS INTRODUCTION

| COMPACT DESIGN | | APPLICATIONS |
|---|---------------------------------------|--|
| Powerful vacuum pumps with integrated functionality. | <p>piCOMPACT® MICRO, P3010, P5010</p> | <ul style="list-style-type: none"> Electronic and semiconductor machine equipment. Robot handling equipment in plastic, consumer, furniture and automotive industries. Suitable for fast and reliable evacuation in sealed systems. |
| A large capacity pump (comparable up to 4kW [5 HP] electro mechanical pumps) that can still reduce energy costs by up to 40%. | <p>P6010, P6040</p> | <ul style="list-style-type: none"> Automatic material handling and other manufacturing processes in the automotive, robotic and packaging industries. Machine equipment for the graphic industry, eg. off set press, post press machines. |
| CLASSIC DESIGN | | APPLICATIONS |
| Now 22% improvement of energy efficiency compared to the previous model. | <p>piCLASSIC</p> | <ul style="list-style-type: none"> Robot handling equipment in plastic, consumer, furniture and automotive industries. Packaging machines. |
| Maximum performance with minimum footprint. | <p>Chip pump</p> | <ul style="list-style-type: none"> Where a small footprint is needed. |
| INLINE DESIGN | | APPLICATIONS |
| 40 – 50% energy reduction compared to other inline vacuum ejectors of corresponding size. | <p>piINLINE®</p> | <ul style="list-style-type: none"> Injection moulding automation equipment. Sheet metal handling equipment, such as laser cutting, bending and punching machines. Pick-and-place, such as labelling machines. |
| Large capacity vacuum pump suitable for cramped areas or for environments with tough chemical conditions. | <p>Round pump</p> | <ul style="list-style-type: none"> For environments with tough chemical conditions. Vacuum forming, evacuation and filling of liquids, leak testing. |

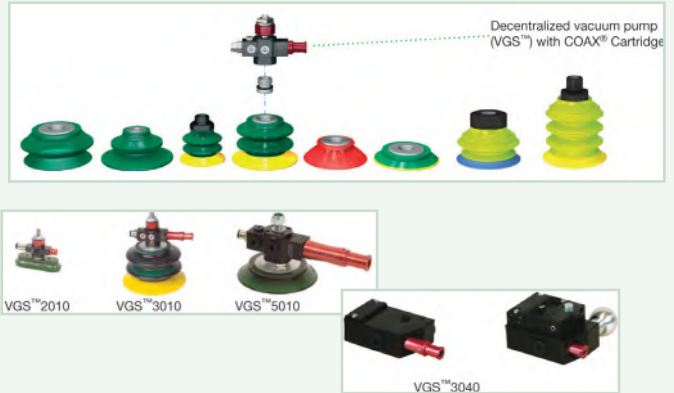
Contact your distributor for further information.

VACUUM GRIPPER SYSTEM – VGS™

ENABLES EASY SELECTION AND ACCURATE DIMENSIONING

Piab's decentralised vacuum gripper system, VGS, is a product solution, integrating high quality suction cups with COAX cartridges.

- VGS makes selection, sizing and installation of a vacuum system much easier. Design and dimension errors will be avoided.
- You will enjoy the benefits of a more efficient and reliable vacuum system.
- Increased machine speeds can be achieved, thanks to faster response times, with the vacuum source right at the cup and better initial vacuum flow, which will grip the object faster.
- The decentralised approach provides safety with one vacuum source per suction point. It also eliminates flow losses in long vacuum hoses, making maximum use of energy.
- VGS 3040 with integrated energy saving functions, like Vacustat and AQR02 (Atmospheric Quik Release) is a pioneering product and the world's most energy efficient concept for vacuum handling of sealed parts, such as glass and metal sheets.



energy savers

| | |
|--|--|
| <p>piSAVE optimise</p>  | <ul style="list-style-type: none"> • Vacuum controlled proportional pressure regulator, a fully pneumatic device suitable for air driven ejectors / pumps. • The feed pressure to the vacuum pump / ejector is automatically regulated and controlled to maintain the set vacuum level. Air / energy usage is kept to a minimum for the application (optimised). • Recommended for leaking and sealed applications to save energy and secure the right vacuum level. • Extra port for vacuum gauge. • Air ventilation port with filter. • Swivel compressed air connections. • piSAVE optimise gives maximum feed pressure / flow to vacuum pump / ejector until vacuum level starts to build up. • Separate mounting bracket kit. • Upgrade kit – available as an integrated module for piCLASSIC and Classic vacuum pumps. |
| <p>piSAVE on/off</p>  | <ul style="list-style-type: none"> • Independent pneumatic air-saving device for vacuum pumps. • Adjustable vacuum controlled 2/2 NO valve. • Available with large hysteresis for object handling and small hysteresis for process applications. • The Vacustat is recommended for vacuum pumps in non-leaking systems. • The vacuum pump must be fitted with a non-return valve. |
| <p>piSAVE release</p>  | <ul style="list-style-type: none"> • Equalises pressure in the suction cups to provide fast release of the product. • Extra fast release by accumulating and utilising the feed air pressure as a boost. • ON / OFF activated simultaneously with the ejector. • No additional controls required – use a single 3/2 control valve for the ejector and piSAVE release. |
| <p>piSAVE sense</p>  | <ul style="list-style-type: none"> • Vacuum check valves, which allow a few suction cups to miss the object(s) and still maintain enough vacuum level in the system with quick response and release times. • The vacuum check valves shall be used in a centralised vacuum system, one for each suction cup. • Designing with vacuum check valves will require a smaller vacuum pump and save energy. • Suitable for handling different sized or a different number of leaking objects, such as MDF boards, corrugated cardboards, with a flexible handling device. • Also suitable for objects with surface leakage around the lip of the suction cup. • Available in three sizes with different flow performance / characteristics to suit different degrees of leakage. • The valves are integrated in an AI-fitting with female and male threaded connections to facilitate installation. |

Value Line[®]

good
performance
value price



suction cups & fittings



vacuum pumps



energy savers



Value Line[®]

Value Line is Piab's range of cost effective vacuum automation components. Value Line products offer good performance at lower prices. For applications and machines where "value for money" is mandatory, Piab's Value Line is the solution.

VALUE LINE EJECTOR – INLINE DESIGN

Lightweight and compact ejector. Compressed air and vacuum ports are "inline" with integrated push-in style fittings. Easy installation, directly on the hose, achieves a close connection to the suction cup.



VALUE LINE EJECTOR T-DESIGN

Lightweight and compact ejector. Integrated push-in fitting for compressed air, vacuum and exhaust ports. Exhaust air can easily be piped away if needed. Mounting bracket is included.



VALUE LINE CUPS – FLAT CONCAVE DESIGN

Programme of seven flat-concave cups from 20 to 75 mm diameter. The design offers good stability, can handle curved surfaces and gives a small degree of level compensation, thanks to the slightly concave design.



VALUE LINE CUPS – BELLOWS DESIGN

Programme of seven bellows cups from 20 to 75 mm diameter. The bellows design allows for more level compensation (less machine accuracy needed) and can handle curved areas and small radius. Limited capacity to handle forces parallel to the surface of the object.



VALUE LINE CUPS – LONG BELLOWS DESIGN

Programme of seven long bellows cups from 20 to 75 mm diameter. The long bellows give extra level compensation (less machine accuracy needed) and a greater ability to grip on difficult geometries. The long stroke can be used to help separate thin sheets/objects. Not recommended when force is parallel to surface of the object.



VALUE LINE – CUP FITTINGS

Optional push-on fittings, with male and female threads in the same fitting, for easy installation. An internal hexagon grip makes it easy to tighten and untighten the cup. Material – brass.



Value Line®

GOOD PERFORMANCE AT A VALUE PRICE

Piab has vast experience in various applications and industries, from pick and place small candies to handling large, heavy boxes. We strive to increase productivity, thus reinforcing your edge in the market. We also aim to reduce your energy consumption and improve your working environment. Partnering with Piab means more than having a reliable supplier of vacuum solutions.



VALUE LINE

Piab has traditionally focused on developing products and being the market leader in applications that are challenging or demanding from a vacuum point of view.

We are now expanding our focus and looking into more basic applications where speed and surfaces to be gripped are less challenging, such as with case erectors, loading sheet metals, injection moulding, etc.

The new product line is called Value Line – Good performance at a value price.

However, for more challenging applications, our other lines of suction cups, such as piGRIP®, DURAFLEX®, etc. are still available.

OTHER BENEFITS OF VALUE LINE

The Value Line is available globally and can be delivered to you for off the shelf delivery. To simplify buying, Value Line suction cups are available in single pieces and at a discounted price for big packs, with breakpoints at 30 and 100. (The recommended prices are available at piab.com/valueine)

TYPICAL APPLICATIONS FOR VALUE LINE

- Sheet metal loading
- Case erecting
- Injection moulding

VALUE LINE BRASS FITTINGS FOR CUPS

SPECIFICATIONS

| | |
|-------------|-------------|
| Temperature | 0-60/80° °C |
| Material | TPE-U |
| Colour | Purple |

* Max. Temperature short term contact, 10 sec and 50% intermittence, ambient temperature 15 - 30°C, mechanical properties will start to degrade.

FITS CUPS

| | | |
|-------------|-------------|-------------|
| VAC-0202096 | VAC-0202100 | VAC-0202102 |
| VAC-0202097 | VAC-0202101 | VAC-0202103 |
| VAC-0202099 | VAC-0202113 | VAC-0202115 |
| VAC-0202109 | VAC-0202114 | VAC-0202116 |
| VAC-0202110 | VAC-0202120 | VAC-0202122 |
| VAC-0202111 | VAC-0202121 | VAC-0202123 |
| VAC-0202117 | | |
| VAC-0202118 | | |
| VAC-0202119 | | |



BRASS FITTINGS FOR CUPS

6 MM

| PART NUMBER | SIZE AND THREADS | DIM E | DIM F | DIM G | SW | PRICE |
|-------------|-----------------------|-------|-------|-------|----|-------|
| VAC-0202156 | 1/8" BSPP – M5 BSPP | 11 | 23 | 3 | 3 | £5.98 |
| VAC-0202157 | 1/4" BSPP – 1/8" BSPP | 14 | 26 | 3 | 3 | £5.98 |
| VAC-0202162 | 1/8" NPT – M5 NPSF | 10 | 22 | n/a | 3 | £7.47 |
| VAC-0202163 | 1/4" NPT – 1/8" NPSF | 15 | 27 | n/a | 3 | £8.22 |

10 MM

| | | | | | | |
|-------------|-----------------------|----|----|-----|---|-------|
| VAC-0202158 | 1/4" BSPP – 1/8" BSPP | 15 | 35 | 4 | 6 | £7.47 |
| VAC-0202160 | 3/8" BSPP – 1/4" BSPP | 15 | 35 | 4 | 6 | £5.98 |
| VAC-0202164 | 1/4" NPT – 1/8" NPSF | 15 | 35 | n/a | 6 | £7.47 |
| VAC-0202166 | 3/8" NPT – 1/4" NPSF | 15 | 35 | n/a | 6 | £7.47 |

12 MM

| | | | | | | |
|-------------|-----------------------|----|----|-----|---|-------|
| VAC-0202159 | 1/4" BSPP – 1/8" BSPP | 15 | 40 | 4 | 6 | £8.22 |
| VAC-0202165 | 3/8" BSPP – 1/4" BSPP | 15 | 40 | 4 | 6 | £8.22 |
| VAC-0202161 | 1/4" NPT – 1/8" NPSF | 15 | 39 | n/a | 6 | £5.98 |
| VAC-0202167 | 3/8" NPT – 1/4" NPSF | 15 | 39 | n/a | 6 | £8.22 |

Please note:
Additional Piab items
also available to
order upon request.

VALUE LINE VACUUM EJECTOR-PUMPS

FEATURES

- Ejector cartridge with improved vacuum performance compared to corresponding size, conventional single stage ejector
- Ejector cartridge, without flap valves, gives high reliability in dirty and dusty environments. Virtually no clogging
- Lightweight body
- Integrated push-in fittings for quick and low cost installation
- Available in "inline" and T-design versions. The T-design is suitable if exhaust air needs to be piped away

SPECIFICATIONS

| | |
|-----------------------|------------------------------|
| Material | PA, NBR, SS, CuZn, Al*, Ni** |
| Temperature range | -10 -80°C |
| Feed pressure max | 0.7 MPa |
| Optimal feed pressure | 0.5 MPa |
| Air consumption | 0.32 NI/s |
| Max. Vacuum | 70 -kPa |
| Evacuation time | 2.6 s/l to 50 -kPa |

* VAC-0202360 ** VAC-0202187

**VALUE LINE EJECTORS
INLINE VACUUM GENERATOR**



5020

| PART NUMBER | CONNECTION | DIM A | DIM B | NOISE LEVEL | PRICE |
|-------------|-------------|-------|-------|-------------|--------|
| VAC-0202360 | Inline 6 mm | 70 | 66.2 | 70-83 | £17.93 |

**VALUE LINE EJECTORS
T-DESIGN VACUUM GENERATOR**



5020

| PART NUMBER | CONNECTION | DIM A | DIM B | NOISE LEVEL | PRICE |
|-------------|---------------|-------|-------|-------------|--------|
| VAC-0202187 | T-design 6 mm | 14.2 | 31.55 | 72.78 | £19.10 |

TECHNICAL DATA

VACUUM EJECTOR PUMPS IN SMALL AND LIGHTWEIGHT DESIGNS FOR EASY INSTALLATION

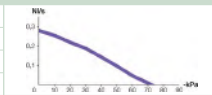
VALUE LINE EJECTORS

- Ejector cartridge with improved vacuum performance compared to corresponding size, conventional single stage ejector.
- Ejector cartridge, without flap valves, gives high reliability in dirty and dusty environments. Virtually no clogging.
- Lightweight body.
- Integrated push-in fittings for quick and low cost installation.
- Available in "inline" and "T-design" versions. The T-design is suitable if exhaust air needs to be piped away.

MATERIAL SPECIFICATION

| | |
|-----------------------|------------------------------|
| Material | PA, NBR, SS, CuZn, Al*, Ni** |
| Temperature range | -10 to 80°C |
| Feed pressure, max. | 0.7 MPa |
| Optimal feed pressure | 0.5 MPa |

VACUUM FLOW



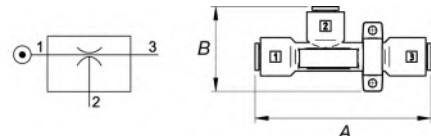
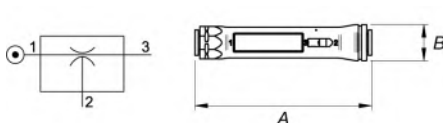
VACUUM PERFORMANCE

| Description | Air consumption* NI/s | Max vacuum* -kPa | Evacuation time, s/l, to 50 -kPa* | Art. no. |
|--------------------------------|-----------------------|------------------|-----------------------------------|----------|
| Inline vacuum generator 6 mm | 0.32 | 70 | 2.6 | 0202360 |
| T-design vacuum generator 6 mm | 0.32 | 70 | 2.6 | 0202187 |

* At optimal feed pressure

TECHNICAL DATA, SPECIFIC

| Description | Noise level dBA | Weight g | Connection, vacuum | Connection, compressed air | Dim. A mm | Dim. B mm | Art. no. |
|--------------------------------|-----------------|----------|--------------------|----------------------------|-----------|-----------|----------|
| Inline vacuum generator 6 mm | 70 – 83 | 12 | Ø6 mm | Ø6 mm | 70 | 14.2 | 0202360 |
| T-design vacuum generator 6 mm | 72 – 78 | 12 | Ø6 mm | Ø6 mm | 66.2 | 31.55 | 0202187 |



A BROAD SELECTION OF NEW VALUE LINE SUCTION CUPS IN FLAT, BELLOWS AND LONG BELLOWS DESIGNS

VALUE LINE CUPS

- Suction cup programme suitable for standard applications, such as carton and cardboard erecting (low to medium speed), metal / wood sheet loading and unloading, parts removal from injection moulding machines and clamping / holding.
- Durable material with good wear resistance.
- Thin sealing lip gives good grip even on slightly textured and corrugated surfaces.
- Available with metal fitting or push-on directly to a pipe.
- Every cup size has a few fitting options.

MATERIAL SPECIFICATION

| | |
|-------------------|--|
| Material | TPE-U |
| Colour | Purple |
| Temperature Range | 0 – 60/80°C Max. temperature short term contact, <10 sec and 50% intermittence, ambient temperature 15 – 30°C, mechanical properties will start to degrade. |



**VALUE LINE CUPS
FLAT CONCAVE**



5020

| PART NUMBER | LIFTING FORCE | DIM A MM | DIM B MM | DIM C MM | DIM D MM | PRICE |
|-------------|---------------|----------|----------|----------|----------|-------|
| VAC-0202096 | 10 | 20 | 15 | 6 | 9 | £1.29 |
| VAC-0202097 | 17 | 25 | 15.8 | 6 | 9 | £1.66 |
| VAC-0202099 | 23 | 30 | 17.5 | 6 | 9 | £1.86 |
| VAC-0202100 | 38 | 40 | 27 | 10 | 15 | £2.14 |
| VAC-0202101 | 58 | 50 | 29 | 10 | 15 | £2.52 |
| VAC-0202102 | 79 | 60 | 35.5 | 12 | 18 | £2.77 |
| VAC-0202103 | 113 | 75 | 38.3 | 12 | 18 | £5.20 |

**VALUE LINE CUPS
BELLOWS**



5020

| PART NUMBER | LIFTING FORCE | DIM A MM | DIM B MM | DIM C MM | DIM D MM | PRICE |
|-------------|---------------|----------|----------|----------|----------|--------|
| VAC-0202109 | 7 | 20 | 19.5 | 6 | 9 | £2.58 |
| VAC-0202110 | 12 | 25 | 22.3 | 6 | 9 | £3.32 |
| VAC-0202111 | 16 | 30 | 25.6 | 6 | 9 | £3.72 |
| VAC-0202113 | 29 | 40 | 36.3 | 10 | 15 | £4.28 |
| VAC-0202114 | 44 | 50 | 43.6 | 10 | 15 | £5.05 |
| VAC-0202115 | 60 | 60 | 52.2 | 12 | 18 | £5.53 |
| VAC-0202116 | 89 | 75 | 61.2 | 12 | 18 | £10.40 |

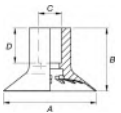
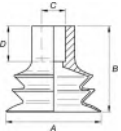
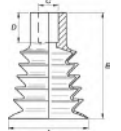
Please note:
Additional Piab items
also available to
order upon request.

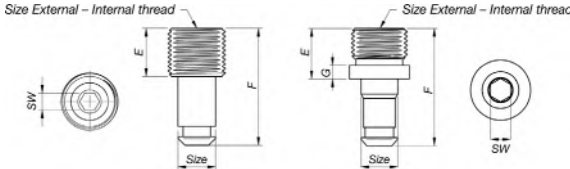
**VALUE LINE CUPS
LONG BELLOWS**

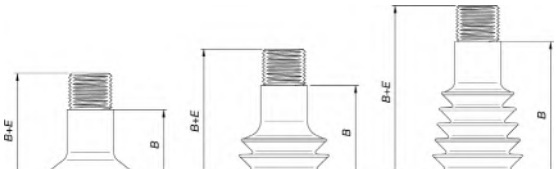


5020

| PART NUMBER | LIFTING FORCE | DIM A MM | DIM B MM | DIM C MM | DIM D MM | PRICE |
|-------------|---------------|----------|----------|----------|----------|--------|
| VAC-0202117 | 6 | 20 | 27.9 | 6 | 9 | £3.23 |
| VAC-0202118 | 11 | 25 | 33.5 | 6 | 9 | £4.15 |
| VAC-0202119 | 15 | 30 | 37.1 | 6 | 9 | £4.65 |
| VAC-0202120 | 23 | 40 | 53.1 | 10 | 15 | £5.35 |
| VAC-0202121 | 35 | 50 | 62.5 | 10 | 15 | £6.31 |
| VAC-0202122 | 48 | 60 | 76.3 | 12 | 18 | £6.92 |
| VAC-0202123 | 76 | 75 | 92.7 | 12 | 18 | £13.00 |

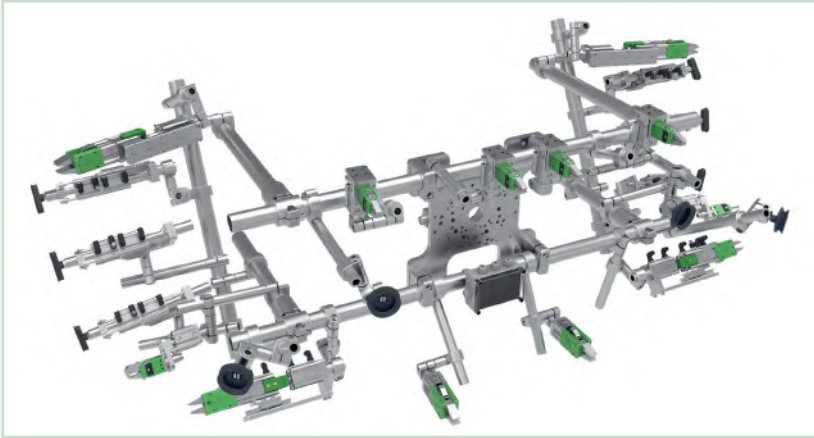
| Type | Name | Lifting forces vertical to the surface, N, at vacuum level 50 -kPa | Dim. A mm | Dim. B mm | Dim. C mm | Dim. D mm | Art. no. |
|---|--------|--|-----------|-----------|-----------|-----------|----------|
| Flat Concave  | VL20FC | 10 | Ø20 | 15 | Ø6 | 9 | 0202096 |
| | VL25FC | 17 | Ø25 | 15.8 | Ø6 | 9 | 0202097 |
| | VL30FC | 23 | Ø30 | 17.5 | Ø6 | 9 | 0202099 |
| | VL40FC | 38 | Ø40 | 27 | Ø10 | 15 | 0202100 |
| | VL50FC | 58 | Ø50 | 29 | Ø10 | 15 | 0202101 |
| | VL60FC | 79 | Ø60 | 35.5 | Ø12 | 18 | 0202102 |
| | VL75FC | 113 | Ø75 | 38.3 | Ø12 | 18 | 0202103 |
| Bellows  | VL20BX | 7 | Ø20 | 19.5 | Ø6 | 9 | 0202109 |
| | VL25BX | 12 | Ø25 | 22.3 | Ø6 | 9 | 0202110 |
| | VL30BX | 16 | Ø30 | 25.6 | Ø6 | 9 | 0202111 |
| | VL40BX | 29 | Ø40 | 36.3 | Ø10 | 15 | 0202113 |
| | VL50BX | 44 | Ø50 | 43.6 | Ø10 | 15 | 0202114 |
| | VL60BX | 60 | Ø58 | 52.2 | Ø12 | 18 | 0202115 |
| | VL75BX | 89 | Ø71.7 | 61.2 | Ø12 | 18 | 0202116 |
| Long Bellows  | VL20BL | 6 | Ø20 | 27.9 | Ø6 | 9 | 0202117 |
| | VL25BL | 11 | Ø25 | 33.5 | Ø6 | 9 | 0202118 |
| | VL30BL | 15 | Ø30 | 37.1 | Ø6 | 9 | 0202119 |
| | VL40BL | 23 | Ø40 | 53.1 | Ø10 | 15 | 0202120 |
| | VL50BL | 35 | Ø50 | 62.5 | Ø10 | 15 | 0202121 |
| | VL60BL | 48 | Ø60 | 76.3 | Ø12 | 18 | 0202122 |
| | VL75BL | 76 | Ø75 | 92.7 | Ø12 | 18 | 0202123 |

| Fittings (brass) | | | | | | | Fitting for cup | | |
|---|---------|-----------|-----------|-----------|----|----------|-----------------|--------|--------|
|  | | | | | | | VL20FC | | |
| | | | | | | | VL25FC | | |
| | | | | | | | VL30FC | | |
| | | | | | | | VL20BX | VL40FC | VL60FC |
| | | | | | | | VL25BX | VL50FC | VL75FC |
| | | | | | | | VL30BX | VL40BX | VL60BX |
| | | | | | | | VL20BL | VL50BX | VL75BX |
| | | | | | | | VL25BL | VL40BL | VL60BL |
| | | | | | | | VL30BL | VL50BL | VL75BL |
| Size and threads | Size mm | Dim. E mm | Dim. F mm | Dim. G mm | SW | Art. no. | | | |
| G1/8" - M5 Diameter 6 | Ø6 | 11 | 23 | 3 | 3 | 0202156 | ● | | |
| G1/4" - G1/8" Diameter 6 | Ø6 | 14 | 26 | 3 | 3 | 0202157 | ● | | |
| G1/4" - G1/8" Diameter 10 | Ø10 | 15 | 35 | 4 | 6 | 0202158 | | ● | |
| G1/4" - G1/8" Diameter 12 | Ø12 | 15 | 40 | 4 | 6 | 0202159 | | | ● |
| G3/8" - G1/4" Diameter 10 | Ø10 | 15 | 35 | 4 | 6 | 0202164 | | ● | |
| G3/8" - G1/4" Diameter 12 | Ø12 | 15 | 40 | 4 | 6 | 0202165 | | | ● |
| NPT 1/8" - M5 | Ø6 | 10 | 22 | n/a | 3 | 0202160 | ● | | |
| NPT 1/4" - NPSF 1/8" | Ø6 | 15 | 27 | n/a | 3 | 0202161 | ● | | |
| NPT 1/4" - NPSF 1/8" | Ø10 | 15 | 35 | n/a | 6 | 0202162 | | ● | |
| NPT 1/4" - NPSF 1/8" | Ø12 | 15 | 39 | n/a | 6 | 0202163 | | | ● |
| NPT 3/8" - NPSF 1/4" | Ø10 | 15 | 35 | n/a | 6 | 0202166 | | ● | |
| NPT 3/8" - NPSF 1/4" | Ø12 | 15 | 39 | n/a | 6 | 0202167 | | | ● |

| Build height, B+E |
|---|
|  |

DESCRIPTION

The EOAT and gripper systems are used to design robotic end-effector tools, ergonomic tools or fixture tools for use on all types of automation equipment. The tooling consists of connecting parts for welded frames or extruded profiles and swivel arm assemblies, grippers with a choice of various "function" attachments. Some function attachments include a vacuum ejector that is based on the latest COAX® technology. Piab provides both round and square EOAT as there are advantages with both options. To maximise the flexibility, our components are modular and adjustable and can be combined into a specific tool from the components. With our great expertise we can also provide tailor made solutions for various applications in the automotive, plastics and food industries.



GRIPPER FINGERS

FEATURES

- Pneumatically single acting, spring return function
- Extendable for longer reach, using VLR Arm Extensions
- Fully compatible with SAS's modular EOAT gripper system

New

GRIPPER FINGERS PNEUMATICALLY SINGLE ACTING SPRING RETURN FUNCTION



5020

| PART NUMBER | MODEL | DEGREE | FORCE | PRICE |
|-------------|-----------|---------|-------|---------|
| VAC-0213149 | GRF 14-95 | 95° (E) | 16 N | £154.90 |
| VAC-0213152 | GRF 20-95 | 95° (E) | 16 N | £174.62 |

New

GRIPPER FINGERS PNEUMATICALLY SINGLE ACTING SPRING RETURN FUNCTION



5020

| PART NUMBER | MODEL | DEGREE | FORCE | PRICE |
|-------------|-----------|---------|-------|---------|
| VAC-0213159 | GRF 20-35 | 35° (E) | 55 N | £187.60 |
| VAC-0213160 | GRF 30-35 | 35° (E) | 55 N | £215.16 |

New

GRIPPER FINGERS PNEUMATICALLY SINGLE ACTING SPRING RETURN FUNCTION



5020

| PART NUMBER | MODEL | DEGREE | FORCE | PRICE |
|-------------|------------|----------|-------|---------|
| VAC-0213164 | GRF 14-120 | 120° (E) | - | £200.55 |

New

GRIPPER FINGERS PNEUMATICALLY SINGLE ACTING SPRING RETURN FUNCTION



5020

| PART NUMBER | MODEL | DEGREE | FORCE | PRICE |
|-------------|------------|----------|-------|---------|
| VAC-0213165 | GRF 20-120 | 120° (E) | - | £213.02 |

FIXING DEVICES FOR GRIPPER FINGERS

New

FIXING DEVICES FOR GRIPPING FINGERS RUBBERISED AND SILICONE FREE LAYER



5020

| PART NUMBER | MODEL | PRICE |
|-------------|------------|--------|
| VAC-0213400 | GH-GF14D14 | £15.81 |

New

FIXING DEVICES FOR GRIPPING FINGERS RUBBERISED AND SILICONE FREE LAYER



5020

| PART NUMBER | MODEL | PRICE |
|-------------|------------|--------|
| VAC-0213401 | GH-GF20D20 | £21.31 |

KNURLED AND SAW TOOTH SPRUE / PART PLIERS

FEATURES

- The standard-type jaws come with a knurled pattern on the jaw-face to better grip the sprue / part
- Single action spring return function
- Anodised finish
- Requirement: Max. air pressure 87 psi (6 bar)
- Requirement: filtered dry air

New



**KNURLED SPRUE / PART PLIERS
WITHOUT PNP SENSOR WITH PLUG**

5020

| PART NUMBER | MODEL | FORCE | SENSOR TYPE | PRICE |
|-------------|-----------|-------|-------------|---------|
| VAC-0213190 | GRZ 10-10 | 20 N | N/A | £103.63 |
| VAC-0213191 | GRZ 10-12 | 20 N | N/A | £140.90 |

New



SAW TOOTH SPRUE / PART PLIERS

5020

| PART NUMBER | MODEL | FORCE | PRICE |
|-------------|--------------|--------|---------|
| VAC-0213196 | GRZ 10-10 ST | 20 N | £124.99 |
| VAC-0213197 | GRZ 10-12 ST | 14.5 N | £124.99 |

New



**KNURLED SPRUE / PART PLIERS
WITH PNP SENSOR WITH PLUG**

5020

| PART NUMBER | MODEL | FORCE | SENSOR TYPE | PRICE |
|-------------|----------------|-------|-------------|---------|
| VAC-0213353 | GRZ 10-10 C-P8 | 20 N | SP1,5/SN1,5 | £162.38 |
| VAC-0213398 | GRZ 10-12 C-P8 | 20 N | SP1,5/SN1,5 | £162.38 |

New



SAW TOOTH SPRUE / PART PLIERS

5020

| PART NUMBER | MODEL | FORCE | PRICE |
|-------------|--------------|-------|---------|
| VAC-0213198 | GRZ 20-16 ST | 65 N | £159.18 |

NITRILE PADDED SPRUE / PART PLIERS

FEATURES

- The NP type jaws feature nitrile rubber padding to the jaws to prevent marring of finished parts
- Single action spring return function
- Anodised finish
- Requirement: Max. air pressure 87 psi (6 bar)
- Requirement: filtered dry air

New



NITRIL PADDED SPRUE / PART PLIERS

5020

| PART NUMBER | MODEL | FORCE | PRICE |
|-------------|--------------|--------|---------|
| VAC-0213202 | GRZ 10-10 NP | – | £141.92 |
| VAC-0213203 | GRZ 10-12 NP | 14.5 N | £128.20 |

New



NITRIL PADDED SPRUE / PART PLIERS

5020

| PART NUMBER | MODEL | FORCE | PRICE |
|-------------|--------------|-------|---------|
| VAC-0213204 | GRZ 20-16 NP | 65 N | £176.27 |

SPRUE / PART PLIERS WITH JAW WITH HOLES

FEATURES

- The standard-type jaws come with a knurled pattern on the jaw face to better grip the sprue / part
- Single action spring return function
- Anodised finish
- Requirement: Max. air pressure 87 psi (6 bar)
- Requirement: filtered dry air

New



SPRUE / PART PLIERS WITH JAW WITH HOLES WITHOUT PNP SENSOR WITH PLUG

5020

| PART NUMBER | MODEL | FORCE | SENSOR TYPE | PRICE |
|-------------|-----------|-------|-------------|---------|
| VAC-0213192 | GRZ 20-16 | 65 N | N/A | £182.76 |

New



SPRUE / PART PLIERS WITH JAW WITH HOLES WITH PNP SENSOR WITH PLUG

5020

| PART NUMBER | MODEL | FORCE | SENSOR TYPE | PRICE |
|-------------|----------------|-------|-------------|---------|
| VAC-0213462 | GRZ 20-16 C-P8 | 65 N | SP1,5/SN1,5 | £210.99 |

GZ20 SPRUE / PART PLIERS

FEATURES

- Movement of the jaws by two pistons
- No inside recuperating spring
- A wide range of jaws, which can be combined
- Compatible with other products
- Anodised components offer excellent gliding properties and wear protection
- Easy jaw change by loosening of the safety caps

New



GZ20 SPRUE / PART PLIERS PADDED JAW

5020

| PART NUMBER | MODEL | JAW TYPE | PRICE |
|-------------|-----------------|----------|---------|
| VAC-0213348 | GZ20-AS50-60-60 | Padded | £188.03 |

New



GZ20 SPRUE / PART PLIERS WITHOUT SENSOR

5020

| PART NUMBER | MODEL | JAW TYPE | PRICE |
|-------------|-----------------|----------|---------|
| VAC-0213345 | GZ20-AS50-10-10 | Knurled | £164.91 |

New



GZ20 SPRUE / PART PLIERS KNURLED JAW WITH SENSOR

5020

| PART NUMBER | MODEL | JAW TYPE | PRICE |
|-------------|-----------------|---------------------|---------|
| VAC-0213349 | GZ20-AS50-10-95 | Knurled with sensor | £266.11 |

New



GZ20 SPRUE / PART PLIERS WITHOUT SENSOR

5020

| PART NUMBER | MODEL | JAW TYPE | PRICE |
|-------------|-----------------|-----------|---------|
| VAC-0213347 | GZ20-AS50-50-50 | Saw tooth | £175.96 |

New



GZ20 SPRUE / PART PLIERS SHAPED JAW WITH SENSOR

5020

| PART NUMBER | MODEL | JAW TYPE | PRICE |
|-------------|-----------------|--------------------|---------|
| VAC-0213350 | GZ20-AS50-40-95 | Shaped with sensor | £270.08 |

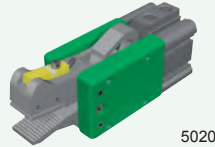
GZ32 SPRUE / PART PLIERS

FEATURES

- Activity: double-acting

New

GZ32 SPRUE / PART PLIERS KNURLED JAW WITH SENSOR

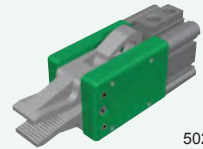


5020

| PART NUMBER | MODEL | JAW TYPE | PRICE |
|-------------|-----------------|---------------------|---------|
| VAC-0213357 | GZ32-AS50-10-95 | Knurled with sensor | £364.44 |

New

GZ32 SPRUE / PART PLIERS WITHOUT SENSOR

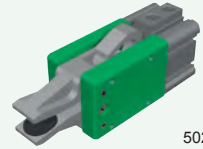


5020

| PART NUMBER | MODEL | JAW TYPE | PRICE |
|-------------|-----------------|----------|---------|
| VAC-0213355 | GZ32-AS50-10-10 | Knurled | £273.55 |

New

GZ32 SPRUE / PART PLIERS WITHOUT SENSOR



5020

| PART NUMBER | MODEL | JAW TYPE | PRICE |
|-------------|-----------------|----------|---------|
| VAC-0213356 | GZ32-AS50-60-60 | Padded | £316.37 |

GRIPPING PLIERS

FEATURES

- Movement of the jaws by two pistons
- No inside recuperating spring
- A wide range of jaws, which can be combined
- Compatible with other products
- Anodised components offer excellent gliding properties and wear protection
- Easy jaw change by loosening of the safety caps

New

GZ25 GRIPPING PLIERS PLAIN JAW



5020

| PART NUMBER | MODEL | JAW TYPE | PRICE |
|-------------|-----------------|----------|---------|
| VAC-0213404 | GZ25-AS55-00-00 | Plain | £258.54 |

New

GZ25 GRIPPING PLIERS STANDARD JAW WITH SENSOR



5020

| PART NUMBER | MODEL | JAW TYPE | PRICE |
|-------------|-----------------|----------------------|---------|
| VAC-0213406 | GZ25-AS55-10-95 | Standard with sensor | £353.55 |

New

GZ25 GRIPPING PLIERS STANDARD JAW



5020

| PART NUMBER | MODEL | JAW TYPE | PRICE |
|-------------|-----------------|----------|---------|
| VAC-0213405 | GZ25-AS55-10-10 | Standard | £260.11 |

New

GZ25 GRIPPING PLIERS RUBBERISED JAW



5020

| PART NUMBER | MODEL | JAW TYPE | PRICE |
|-------------|-----------------|------------|---------|
| VAC-0213407 | GZ25-AS55-60-60 | Rubberised | £283.80 |

ELBOW ARMS

FEATURES

- Angle adjustable elbow
- Useful for adjustment of GRZ gripper pliers and GRF gripper fingers

New

GLA ELBOW ARMS



5020

| PART NUMBER | MODEL | PRICE |
|-------------|------------|--------|
| VAC-0213090 | GLA 14-120 | £26.65 |

New

GLA ELBOW ARMS



5020

| PART NUMBER | MODEL | PRICE |
|-------------|-----------|--------|
| VAC-0213089 | GLA 10-90 | £16.51 |

New

GLA ELBOW ARMS



5020

| PART NUMBER | MODEL | PRICE |
|-------------|------------|--------|
| VAC-0213092 | GLA 20-150 | £30.02 |

piCOMPACT®23 smart

Innovative vacuum generators with fully integrated controls for smart Industry 4.0 manufacturing

Generic communication link – new era of smart factories

The piCOMPACT®23 SMART is available with IO-Link, which fits any type of fieldbus. IO-Link is the first worldwide standard (IEC 61131-9) for IO technology used for sensor and actuator communication. The powerful point-to-point communication is based on 3-wire connection. Offering fieldbus-independence, IO-Link is really a further development of the existing, tried and tested connection technology for sensors and actuators.

- Configurable vacuum ejector based on COAX® technology with integrated controls, developed for robotic handling applications
- Optimised design for high reliability, flexibility, high vacuum flow and fast cycle times
- Energy Saving (ES) function with adjustable hysteresis, Automatic Condition Monitoring (ACM) and Automatic ES Level Determination (ALD)
- Additional features; Amplified Blow-Off (ABO), Automatic Timer Blow-Off (ATBO), Intelligent Blow-Off (IBO) and Self Adhesion Control (SAC) automatically removes "unwanted" vacuum adhesion with short blow puffs
- Option (piCOMPACT®23 SMART) with data communication through international standard system IO-Link
- piCOMPACT®23 SMART to be selected for medium or larger vacuum systems, such as palletising of boxes and loading, sorting, transfer and unloading of different sheet materials
- Available sensor data: temperature, voltage, acceleration, cycle analysis and more, to help predict maintenance. Sensor data communicated over IO-link but also visual in the display menu
- Prepared for quick connect/release, with common compressed air feed for 1-4 units (buy 1-4 channel pumps). Easy maintenance and easy installation. Quick connect plate ordered separately

New



Contact your distributor for further information.

Nine

CONFIGURABLE PRODUCTS

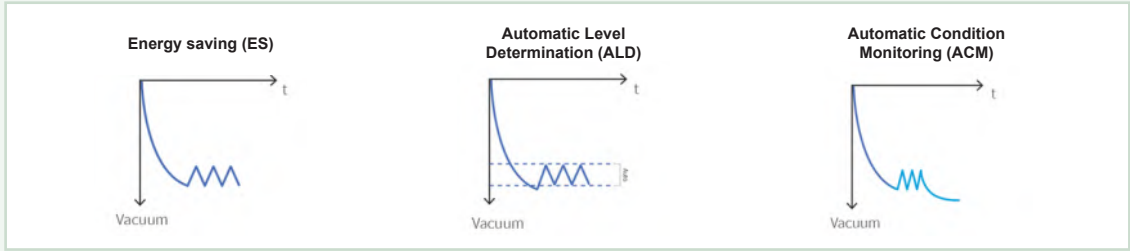
| Product Group | Functionality | | Functionality | | Working environment | | Functionality | |
|---------------|---------------|-------------------------|------------------|-----------------------|---------------------|---------------------|---------------|---|
| piCOMPACT | Code | Vacuum characteristics | Code | Nozzle model | Code | Chemical resistance | Code | Communication interface |
| PC | F | High vacuum performance | 12 | SX12 (2.59–5.18 scfm) | S | Standard | H | IO-Link pre-configured |
| | | | 42 | SX42 (7.33–14.6 scfm) | | | K | Standard input/output and IO-Link ready |
| | | | Code Nozzle rows | | | | | |
| | | | 1 | Single | | | | |
| | | | 2 | Double | | | | |

PC . F . 122 . S . H111AD . S1P1 . 1X . 8 . EJ . CCCC

| Vacuum connect module | | | | Single unit or manifold mount | | | | | |
|-----------------------|-------------------------------------|------------------------|----------------|-------------------------------|---------------------------------|--------------------|-------------|---------------------------|-------------|
| Vacuum filter | | Vacuum port(s)/channel | | Vacuum connection(s) | | Number of channels | | Split control from vacuum | |
| Code | Description | Code | Description | Code | Description | Code | Description | Code | Description |
| S | Vacuum filter 50 µm | 1 | 1 vacuum port | 8 | Ø8 (5/16") push-in connector(s) | 1 | 1 channel | X | No split |
| F | 2 x Vacuum filter 50 µm | 2 | 2 vacuum ports | P1 | Ø10 push-in connector(s) | 2 | 2 channels | B | Split Ø6 |
| X | No vacuum filter | 3 | 3 vacuum ports | P2 | Ø3/8" push-in connector(s) | 3 | 3 channels | C | Split Ø1/4" |
| Z | No vacuum filter incl. sensing port | | | P3 | Ø12 push-in connector(s) | 4 | 4 channels | D | Split Ø8 |
| | | | | P4 | Ø1/2" push-in connector(s) | | | E | Split Ø10 |
| | | | | H1 | 12mm / 1/2" ID barb connector | | | F | Split Ø3/8" |

piCOMPACT®23 smart

TECHNICAL FEATURES



Adaptive Pulse Width Modulation (A-PWM)

Blow Off Options
Automatic Timer (ATBO)
Intelligent (IBO) & Amplified (ABO)

Self Adhesion Control (SAC)

Separate Power Domains

CONFIGURABLE PRODUCTS

Functionality

| Code | Control functions |
|------------------------|--|
| A | Electrical ES, vac and blow-off |
| B | Electrical ES, vac and automatic timer based blow-off (ATBO) |
| F | Electrical ES, vac, intelligent blow-off (IBO) |
| C | Vac and blow-off |
| D | Vac, automatic timer based blow-off (ATBO) |
| G | Vac and intelligent blow off (IBO) |
| E | Vacuum on/off (vac) |
| IO-Link pre-configured | |

| Code | IO-Link Energy saving type |
|------|--|
| 1 | ES pre-set on 22.1 -inHg |
| 2 | ES Automatic level determination (ALD) |
| 3 | ES pre-set on 22.1 -inHg with ALD backup |
| 0 | No ES |
| Code | IO-Link Blow-off type |
| 1 | Automatic timer based blow-off (ATBO) |
| 2 | Intelligent blow off (IBO) |
| 0 | External control |
| Code | IO-Link Additional functions |
| 1 | Self adhesion control (SAC) |
| 0 | No IO-Link additional functions |
| Code | Additional vacuum functions |
| | No extra vacuum control |
| Z | Self adhesion control (SAC) |

| Code | Internal check valves |
|------|---|
| B | Without non-return valve |
| A | With non-return valve |
| C | Amplified blow-off, without vacuum non-return valve (ABO) |
| D | Amplified blow-off, with vacuum non-return valve (ABO) |
| Code | Vacuum sensing |
| A | Display, analog and digital output [-kPa] |
| B | Display, 2x digital outputs [-kPa] |
| C | Display, leakage warning and digital output [-kPa] |
| Code | IO-Link display [-kPa] |
| D | Display, analog and digital output [-inHg] |
| F | Display, 2x digital outputs [-inHg] |
| G | Display, leakage warning and digital output [-inHg] |
| Code | IO-Link display [-inHg] |
| X | No vacuum sensing |

PC . F . 122 . S . H111AD . S1P1 . 1X . 8 . EJ . CCCC

Air supply

| Air connections | |
|-----------------|--|
| Code | Description |
| 6 | Ø6 push-in connector |
| 14 | Ø1/4" push-in connector |
| 8 | Ø8(5/16") push-in connector |
| P1 | Ø10 push-in connector |
| P2 | Ø3/8" push-in connector |
| P3 | Ø12 push-in connector(s) |
| P4 | Ø1/2" push-in connector(s) |
| 2P1 | 2x Ø10 push-in connector(s) |
| 2P2 | 2x Ø3/8" push-in connector(s) |
| 2P3 | 2x Ø12 push-in connector(s) |
| 2P4 | 2x Ø1/2" push-in connector(s) |
| QC | Pre-configured for Quick connect plate |

Mounting

| Code | Ejector options |
|------|--|
| EC | Ejectors stacked with central exhaust |
| EN | Ejectors stacked with central silencer |
| EJ | Ejector(s) for individual mounts, integrated silencer |
| EK | Ejector(s) for individual mounts, top mounted silencer |
| EL | Ejector(s) for individual mounts, central exhaust |
| EM | Ejector(s) for individual mounts, central silencer |

Electrical properties

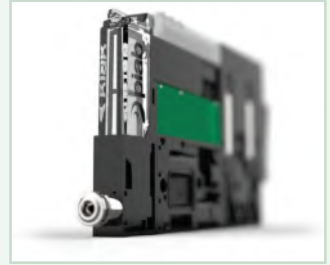
| Code | Valve configuration |
|------|---|
| CC | NC vacuum + NC blow off |
| OC | NO vacuum + NC blow off |
| C | NC vacuum |
| O | NO vacuum |
| AC | Bi-stable vacuum valve + NC blow off |
| Code | Electrical input/output |
| A | PNP/PNP or NPN/NPN |
| B | Mixed mode |
| C | IO-Link |
| Code | Electrical interface |
| B | M12 8p connector(s) |
| C | M12 5p connector(s) |
| E | M12 5p connector(s), separate power domains |
| F | 2 x M12 4p connectors, separate power domains |

piCOMPACT® MICRO

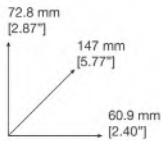
Amazing uptime with the world's fastest integrated controls ejector

- COAX® technology allows for supply pressure drops or pressure fluctuations without jeopardising vacuum performance.
- Vacuum response to 50–60 –kPa (15–18 –inHg) is typically 30–50% faster compared to single stage technology.
- Ultra high speed, direct operating valves, for vacuum on/off and part release, provide short cycle times and high reliability.
- Split unit is a unique feature where the pump and valve sections can be separated. Shorter cycle time as closer to point of suction. (Optional)
- Probably the most user-friendly GUI for the vacuum switch, compared to other ejectors.
- Extra-large cleanable vacuum filter area guarantees no pressure drops or reduced speed / performance.
- The only 10 mm wide compact ejector with a large 6 mm vacuum connection for maximum performance.

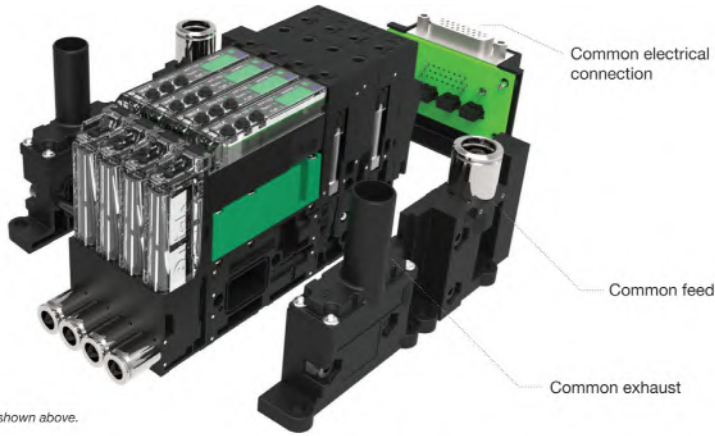
* Conditions: Vacuum piping size $\varnothing 4/2$ mm x 300 mm, small cup, total volume 5 ml, piCOMPACT™ MICRO T105x2 with filter filler.



Contact your distributor for further information.



Values are valid for the example shown above.



426 g [15 oz.]

CONFIGURABLE PRODUCTS

| | | | | | | | | | |
|------------------------------------|--------------------------|-------------|---|--------------|--------|-------------|---------------------|---------------------|--|
| Product Group piCOMPACT™ | Ejector performance | | | | | | Working environment | | |
| | Vacuum characteristics | | | Nozzle model | | Nozzle rows | | Chemical resistance | |
| | Code | Description | Code | Description | Code | Description | Code | Description | |
| PC | L Low feed pressure | MC | MICRO (14–19 Nl/min [0.50–0.67 scfm]) | 1 | Single | S | Standard | | |
| | S High vacuum flow | | | 2 | Double | | | | |
| | X Extra vacuum level | | | | | | | | |
| | T Extra high vacuum flow | | | | | | | | |

PC . S . MC2 . S . AAA . S16 . 1X . 6 . EI . CCP6

| Functionality | | | | | |
|-------------------|--------------------------------------|------------------|--------------------------|----------------|------------------------------------|
| Control functions | | Non-return valve | | Vacuum sensing | |
| Code | Description | Code | Description | Code | Description |
| A | Electrical ES and blow off | B | Without non-return valve | A | Display, analog and digital output |
| B | Electrical ES and automatic blow off | | | | |
| C | Blow off | A | With non-return valve | X | No vacuum sensing |
| D | Automatic blow off | | | | |
| E | No addition | | | | |

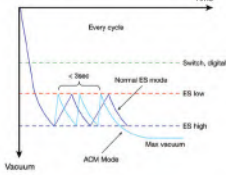
| Vacuum connect module | | | | | |
|-----------------------|---------------------|------------------------|----------------|----------------------|---------------------------------|
| Vacuum filter | | Vacuum port(s)/channel | | Vacuum connection(s) | |
| Code | Description | Code | Description | Code | Description |
| S | Vacuum filter 50 µm | 1 | 1 vacuum port | 4 | Ø4 (5/32") push-in connector(s) |
| X | No vacuum filter | 2 | 2 vacuum ports | 6 | Ø6 push-in connector(s) |
| | | 3 | 3 vacuum ports | 14 | Ø1/4" push-in connector(s) |

piCOMPACT® MICRO

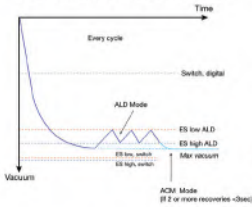
Amazing uptime with the world's fastest integrated controls ejector

Special features for energy saving (ES) function

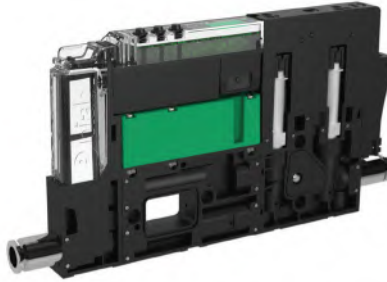
ACM - Automatic Condition Monitoring



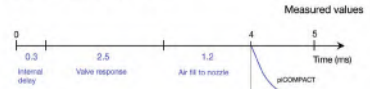
ALD - Automatic level determination



The combination of ACM and ALD makes it very easy to install and run an ES system with optimized settings for every cycle.

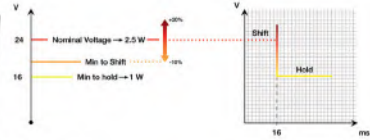


Valve pump speed



High speed valves with adaptive PWM

Adaptive Pulse Width Modulation



Adaptive PWM Gives

- Faster response with lower energy usage. Only use the high power when needed.
- More robust system with larger voltage input range that provides a safer shift.
- Better longevity with lower overall power and temperature.

CONFIGURABLE PRODUCTS

| Single unit or manifold mount | | | |
|-------------------------------|-------------|---------------------------|-------------|
| Number of channels | | Split control from vacuum | |
| Code | Description | Code | Description |
| 1 | 1 channel | X | No split |
| 2 | 2 channels | A | Split ø4 |
| 3 | 3 channels | B | Split ø6 |
| 4 | 4 channels | C | Split ø1/4" |
| 5 | 5 channels | | |
| 6 | 6 channels | | |
| 7 | 7 channels | | |
| 8 | 8 channels | | |

| Air supply | |
|-----------------|-----------------------------------|
| Air connections | |
| Code | Description |
| 4 | Ø4 (5/32") push-in connector |
| 6 | Ø6 push-in connector |
| 14 | Ø1/4" push-in connector |
| 8 | Ø8 (5/16") push-in connector |
| 26 | 2 x ø6 push-in connectors |
| 214 | 2 x ø1/4" push-in connectors |
| 28 | 2 x ø8 (5/16") push-in connectors |

Contact your distributor for further information.

PC . S . MC2 . S . AAA . S16 . 1X . 6 . EI . CCP6

| Mounting | |
|----------|---------------------------------------|
| Options | |
| Code | Description |
| EC | Ejectors stacked with central exhaust |
| EI | Ejector(s) for individual mounts |

| Electrical properties | | | | | |
|-----------------------|-------------------------|---------------------------|-------------|----------------------|------------------------|
| Valve configuration | | Electrical input / output | | Electrical interface | |
| Code | Description | Code | Description | Code | Description |
| CC | NC vacuum + NC blow off | P | PNP | 6 | 6 pole connector(s) |
| OC | NO vacuum + NC blow off | N | NPN | 26 | HD D-sub 26p connector |
| C | NC vacuum | | | 44 | HD D-sub 44p connector |
| O | NO vacuum | | | | |

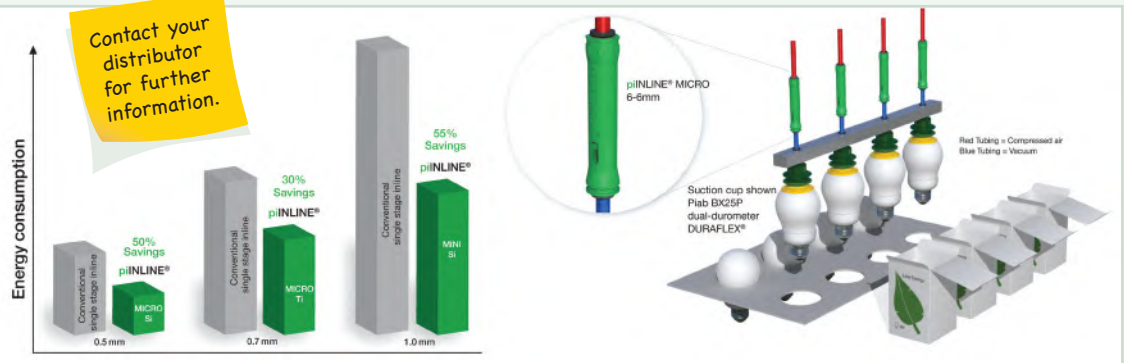
piINLINE® Eco-friendly, energy saving, inline vacuum ejector

Introducing piINLINE® a range of eco-friendly, vacuum inline ejectors based on Piab's energy efficient COAX® technology.

- Superior vacuum performance even at low or fluctuating feed pressures.
- Dirt tolerant and durable design.
- Easy to retrofit existing energy wasting inline vacuum ejectors, thanks to generic "plug-and-play" design.
- Easy and simple installation with push in connections – low installation cost.
- Installs directly on the hose near the suction point.
- Eliminates flow losses and enhances the vacuum performance.



Nine



TECHNICAL INFORMATION

| piINLINE® vacuum ejector | Area of application | Dirt tolerant design | Optimum feed pressure | Air Consumption | Max vacuum | Max vacuum flow | Evacuation time, -50 kPa | |
|--------------------------|---------------------|-----------------------------------|-----------------------|-----------------|------------|-----------------|--------------------------|------|
| | | | MPa | NI/min | -kPa | NI/min | s/l | |
| | MICRO Si | Leaking applications | 0.600 | 7.2 | 75 | 16.8 | 4.90 | |
| | MICRO Bi | Low or fluctuating compressed air | 0.180 | 8.4 | 83 | 13.8 | 10.00 | |
| | MICRO Ti | Sealed applications | 0.400 | 16.2 | 84 | 19.2 | 3.10 | |
| | | Leaking applications | x | 0.600 | 22.2 | 75 | 18.6 | 2.60 |
| | MICRO Xi | Sealed applications | 0.500 | 7.8 | 92 | 14.4 | 7.30 | |
| | MINI Si | Leaking applications | x | 0.600 | 26.4 | 75 | 41.4 | 1.40 |
| | MINI Pi | Low or fluctuating compressed air | x | 0.314 | 26.4 | 90 | 34.2 | 1.80 |
| | MINI Xi | Sealed applications | x | 0.500 | 27.6 | 94 | 37.2 | 1.60 |
| | MIDI Si | Leaking applications | x | 0.600 | 105.0 | 75 | 186.0 | 0.40 |
| | MIDI Pi | Low or fluctuating compressed air | x | 0.300 | 120.0 | 90 | 162.0 | 0.48 |
| | MIDI Xi | Sealed applications | x | 0.450 | 110.0 | 95 | 168.0 | 0.44 |

ORDERING INFORMATION

| piINLINE® vacuum ejector | Connections for compressed air and vacuum | | | | Accessories | | |
|--------------------------|---|---------|---------|---------|--------------------|----------|-------------------------------|
| | 4-4mm | 6-6mm | 8-8mm | 8-12mm | Snap in mounting | Silencer | Snap in mounting for Silencer |
| | MICRO Si | 0122882 | - | - | 5xMICRO 0123093 | - | - |
| | MICRO Bi | 0122880 | 0122883 | - | | | |
| | MICRO Ti | | 0122022 | | | | |
| | MICRO Xi | 0122881 | 0122884 | - | | | |
| | MINI Si | - | 0122025 | 0122896 | 4xMINI 0123094 | 0125466 | 1xMINI 0126009 |
| | MINI Pi | - | 0122894 | 0122897 | | | |
| | MINI Xi | - | 0122895 | 0122898 | | | |
| | MIDI Si | - | - | 0122032 | 1xMIDI 0123095 | 0123031 | 1xMIDI 0123096 |
| | MIDI Pi | - | - | 0122899 | | | |
| | MIDI Xi | - | - | 0122900 | | | |

Leaking applications include handling porous materials such as corrugated board. Sealed applications include handling electronics, plastic parts and other non-porous materials.

piCLASSIC 40% more energy efficient compared to a rotary vane style pump

Our Classic pump series has been upgraded to piCLASSIC with COAX® cartridges, providing an improvement of up to 22% in energy efficiency.

- Available with 70% more vacuum flow capacity versus previous Classic models.
- High initial flow.
- No need for expensive vacuum tanks and vacuum valves on high-speed machines.
- Easy to control on/off for intermittent operation to save energy.
- Low weight (0.5-1kg) and new modular design.
- Easy to install close to suction point for reduced energy costs (smaller size of pump).
- Few moving parts – virtually no cost for service and repair.
- New design is easy to dismount and clean.
- Performance can easily be upgraded by adding cartridges (up to a total of 6).
- Available with extra energy saving function for sealed systems.



TECHNICAL INFORMATION

| piCLASSIC vacuum cartridge | Area of application | Optimum feed pressure, MPa | Air consumption/ cartridge, Nl/s | Max vacuum, -kPa | Vacuum flow range, 1-6 cartridges, Nl/s | Rec. operating vacuum range, -kPa |
|----------------------------|------------------------------|----------------------------|----------------------------------|------------------|---|-----------------------------------|
| Midi Si32-3 | Leaking applications | 0.60 | 1.75 | 75 | 6-28.8 | 0-70 |
| Midi Pi48-3 | Low or fluctuating comp. air | 0.30 | 2.00 | 90 | 5.6-26.9 | 0-90 |
| Midi Xi40-3 | Sealed applications | 0.45 | 1.83 | 95 | 5.9-28.3 | 70-95 |

Leaking applications include handling porous materials, such as corrugated board. Sealed applications include handling non-porous materials, such as glass and metal.

CONFIGURABLE PRODUCTS

| Product Group | COAX® cartridge module | | Number of COAX® | | COAX® valve configuration | | Sealing material | |
|---------------|------------------------|--|-----------------|-------------|---------------------------|------------------|------------------|-------------|
| Code | Code | Description | Code | Description | Code | Description | Code | Description |
| PCL | S | COAX® cartridge Si32-3, high vacuum flow | 1 | Single unit | B | Standard | N | Nitrile |
| | X | COAX® cartridge Xi40-3, extra vacuum level | 2 | x2 units | A | Non-return valve | V | Viton |
| | P | COAX® cartridge Pi48-3, low feed pressure | 3 | x3 units | | | | |
| | | | 4 | x4 units | | | | |
| | | | 5 | x5 units | | | | |
| | | | 6 | x6 units | | | | |

PCL . S1BN . S . 10D . SV

| Function | | Compressed air connection | | Vacuum connection | | Accessories | |
|----------|---------------------------|---------------------------|----------------------------------|-------------------|-----------------|-------------|----------------------------------|
| Code | Description | Code | Description | Code | Description | Code | Description |
| S | No function | A | G1/4" female | D | G3/4" female | X | No accessory |
| F | Energy saving system (ES) | E | 1/4" NPT female | E | 3/4" NPT female | S | Silencer G1" male |
| | | D | 1/8" NPSF (G) female | B | G1" female | V | Vacuum gauge |
| | | 08 | Push in 8 mm (5/32") 1/4" female | | | SV | Silencer G1" male & vacuum gauge |
| | | 10 | Push in 10 mm -1/4" female | | | | |
| | | 12 | Push in 12 mm -1/4" female | | | | |

DRY RUNNING ROTARY VANE VACUUM PUMP



V-VTN SERIES
WITH INTEGRAL
SUCTION PAPER FILTER
3 ph 50Hz 230/400V MOTOR

5050

| PART NUMBER | MODEL | MOTOR RATING (KW) | PRICE |
|---------------|-------|-------------------|----------|
| GD-VTN16-0111 | VTN16 | 0.55 | £951.66 |
| GD-VTN26-0110 | VTN26 | 0.75 | £1346.40 |
| GD-VTN41-0113 | VTN41 | 1.50 | £1744.20 |

1ph 50/60Hz 230V MOTOR

| PART NUMBER | MODEL | MOTOR RATING (KW) | PRICE |
|---------------|-------|-------------------|----------|
| GD-VTN16-0116 | VTN16 | 0.55 | £1081.20 |
| GD-VTN26-0114 | VTN26 | 0.75 | £1346.40 |
| GD-VTN41-0121 | VTN41 | 1.50 | £2111.40 |

DRY RUNNING ROTARY VANE COMPRESSORS



V-DTN SERIES
WITH INTEGRAL
SUCTION PAPER FILTER
3ph 50Hz 230/400V MOTOR

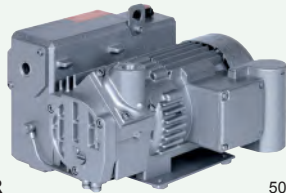
5050

| PART NUMBER | MODEL | MOTOR RATING (KW) | PRICE |
|---------------|-------|-------------------|----------|
| GD-DTN16-0112 | DTN16 | 0.55 | £1001.64 |
| GD-DTN26-0110 | DTN26 | 0.75 | £1295.40 |
| GD-DTN41-0124 | DTN41 | 1.50 | £1744.20 |

1ph 50/60Hz 230V MOTOR

| PART NUMBER | MODEL | MOTOR RATING (KW) | PRICE |
|---------------|-------|-------------------|----------|
| GD-DTN16-0116 | DTN16 | 0.75 | £1193.40 |
| GD-DTN26-0116 | DTN26 | 0.75 | £1366.80 |

OIL FLOODED ROTARY VANE VACUUM PUMP



V-VGD SERIES
3ph 50Hz 230/400V MOTOR

5050

| PART NUMBER | MODEL | MOTOR RATING (KW) | PRICE |
|---------------|-------|-------------------|----------|
| GD-VGD10-0120 | VGD10 | 0.37 | £1081.20 |
| GD-VGD15-0119 | VGD15 | 0.55 | £1203.60 |

1ph 50/60Hz 230V MOTOR

| PART NUMBER | MODEL | MOTOR RATING (KW) | PRICE |
|---------------|-------|-------------------|----------|
| GD-VGD10-0130 | VGD10 | 0.37 | £1183.20 |

SIDE CHANNEL BLOWERS



2BH SERIES
1ph 50/60Hz 115/230 V MOTOR

5050

| PART NUMBER | MODEL | MOTOR RATING (KW) | PRICE |
|-----------------|---------|-------------------|---------|
| GD-2BH13007AV15 | 2BH1300 | 0.37 | £710.94 |
| GD-2BH14007AV25 | 2BH1400 | 1.10 | £870.06 |

3ph 50/60Hz 230/400V MOTOR

| PART NUMBER | MODEL | MOTOR RATING (KW) | PRICE |
|-----------------|---------|-------------------|----------|
| GD-2BH16007AH16 | 2BH1600 | 2.20 | £1397.40 |

OIL FLOODED ROTARY VANE VACUUM PUMP



V-VC SERIES
3ph 50Hz 200/255V MOTOR

5050

| PART NUMBER | MODEL | MOTOR RATING (KW) | PRICE |
|--------------|-------|-------------------|----------|
| GD-VC50-20GC | VC50 | 1.25 | £2131.80 |
| GD-VC75-20GE | VC75 | 1.85 | £2315.40 |

3ph 50Hz 230V MOTOR

| PART NUMBER | MODEL | MOTOR RATING (KW) | PRICE |
|---------------|-------|-------------------|----------|
| GD-VC100-20GF | VC100 | 2.20 | £3264.00 |
| GD-VC202-20GH | VC202 | 4.00 | £5997.60 |
| GD-VC303-20GI | VC303 | 5.50 | £6262.80 |

Please note:
Accessories are available for all models.

CLAW VACUUM PUMP



VLR SERIES

3ph 50Hz

5050

| PART NUMBER | MOTOR RATING (KW) | RATED VOLTAGE | PRICE |
|----------------|-------------------|---------------|----------|
| GD-VLR100-01GF | 2.2 | 230 / 400 V | £4926.60 |
| GD-VLR150-01GG | 3.0 | 230 / 400 V | £5355.00 |
| GD-VLR301-01HI | 5.5 | 400 / 690 V | £8608.80 |

CLAW COMPRESSOR



DLR SERIES

3ph 50Hz

5050

| PART NUMBER | MOTOR RATING (KW) | RATED VOLTAGE | PRICE |
|----------------|-------------------|---------------|-----------|
| GD-DLR100-01GG | 4.0 | 230 / 400 V | £5426.40 |
| GD-DLR150-01HL | 7.5 | 400 / 690 V | £5783.40 |
| GD-DLR301-03HO | 15.0 | 400 / 690 V | £10404.00 |

SCREW VACUUM PUMP



VSI SERIES

3ph 50Hz

5050

| PART NUMBER | MOTOR RATING (KW) | RATED VOLTAGE | PRICE |
|------------------|-------------------|---------------|-----------|
| GD-VSI301-01NIXD | 5.5 | 400 / 690 V | £21420.00 |

Many other machines and accessories available.

Please ask for more details.

ACCESSORIES



PAPER FILTER INSERT

5050

| PART NUMBER | DESCRIPTION | PRICE |
|-------------|--------------------|---------|
| GD-2BX2100 | To suit GD-2BH1300 | £77.11 |
| GD-2BX2107 | To suit GD-2BH1400 | £137.70 |
| GD-2BX2102 | To suit GD-2BH1600 | £149.94 |



THREADED FLANGE

5050

| PART NUMBER | TUBE OD | DESCRIPTION | PRICE |
|-------------|---------|-------------|--------|
| GD-2BX1038 | G1 1/2" | GD-2BH1400 | £20.09 |
| GD-2BX1041 | G2" | GD-2BH1600 | £20.09 |



INLINE VACUUM PAPER FILTER

5050

| PART NUMBER | DESCRIPTION | PRICE |
|-------------|-----------------|---------|
| GD-2BX2060 | To suit 2BH1300 | £169.32 |
| GD-2BX2064 | To suit 2BH1400 | £204.00 |
| GD-2BX2061 | To suit 2BH1600 | £204.00 |



INLET VACUUM FILTER

ZVF SERIES

5050

| PART NUMBER | FLOW RATE | DESCRIPTION | PRICE |
|-------------|------------------------|-------------------|---------|
| GD-ZVF32-54 | 100 m ³ /h* | To suit GD-VLR100 | £153.00 |
| GD-ZVF40-53 | 200 m ³ /h* | To suit GD-VLR150 | £174.42 |
| GD-ZVF50-53 | 320 m ³ /h* | To suit GD-VLR301 | £275.40 |



INLET FILTER

ZAF SERIES

5050

| PART NUMBER | FLOW RATE | DESCRIPTION | PRICE |
|-------------|------------------------|-------------------------------|---------|
| GD-ZAF40-00 | 270 m ³ /h* | To suit GD-DLR100 / GD-DLR150 | £162.18 |
| GD-ZAF50-00 | 480 m ³ /h* | To suit GD-DLR300 | £208.08 |