

Piab Accessories For Vacuum Ejectors

BONDY

INDUSTRIAL EQUIPMENT SUPPLIER

For ordering and questions call

(+45) 70 15 14 14



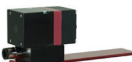



Pump accessories



PUMP ACCESSORIES

| | |
|-------------------------------|-----|
| Selection guide – Accessories | 308 |
| Vacuum Pump Accessories | 309 |
| Vacuum switches | 310 |
| Valves | 316 |
| Valves – Vacuum check valves | 320 |
| Regulators | 324 |
| Silencers | 326 |
| Vacuum Filters | 328 |
| Other | 330 |

Selection guide – Accessories

| Vacuum pump accessories | | Features and benefits |
|---|-----------------|---|
|  | Vacuum switches | Our line includes inductive universal, electro-mechanical and pneumatic vacuum switches that are pre-set or adjustable. |
|  | Valves | Choose between solenoid, electrically or vacuum-controlled valves. The vacuum controlled valve (Vacustat) shuts off the flow of compressed air to the pump when the pre-set level is reached, and consequently the consumption of compressed air is minimised. |
|  | Regulators | Different vacuum pumps need different feed pressure for optimum performance. A filter regulator can easily be manually set to a desired pressure level, and be used to eliminate particles from the compressed air. A pilot regulator can be used to automatically set the feed pressure according to your needs. |
|  | Silencers | Reduce noise from exhaust with a flow-through design. |
|  | Vacuum filters | To filter dust and other small particles from the vacuum flow. Reduces the risk of operation breakdown or stoppage in the pump. |
|  | Other | Body for COAX® cartridges, vacuum gauge, manometer etc. |

Vacuum Pump Accessories

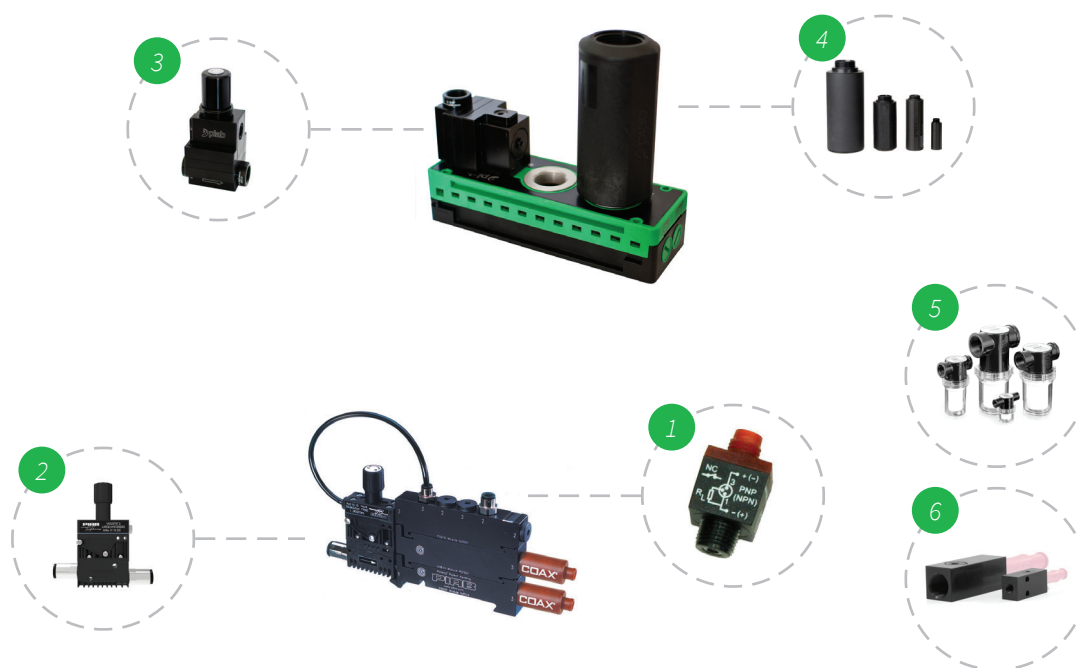
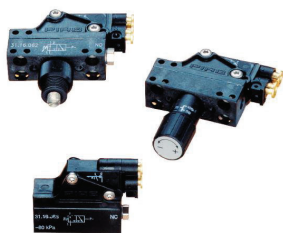


Image only to serve as an example.

- 1 Vacuum switches
- 2 Valves
- 3 Regulators

- 4 Silencers
- 5 Vacuum filters
- 6 Other

Vacuum switches



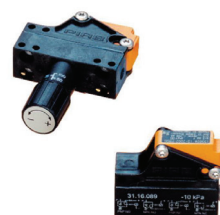
Vacuum switches, pneumatic

- Converts a vacuum level to a pneumatic signal.
- Vacuum-actuated membrane linked to a pneumatic switch.
- Available preset or with adjustable vacuum level.



Vacuum switches, electromechanical

- Converts a vacuum level to an electric signal, VAC or VDC.
- Vacuum-actuated membrane linked to an electro-mechanical switch.
- Integrated cable with open ends included.
- Available preset or with adjustable vacuum level.



Vacuum switches, inductive universal

- Converts a vacuum level to a digital signal, 24 VDC.
- Vacuum-actuated membrane linked to a proximity-inductive universal switch.
- Integrated cable with open ends included.
- PNP NO/NC or NPN NO/NC output functions.
- The switch must be connected in series with the load.

TECHNICAL DATA

| Description | Hysteresis | Signal range |
|--|------------|--------------|
| Vacuum switch, pneumatic, adjustable with screw and knob (NO) | 3 kPa | 10–95 -kPa |
| Vacuum switch, pneumatic, adjustable with screw and knob (NC) | 12 kPa | 15–95 -kPa |
| Vacuum switch, pneumatic, preset (NO 25 -kPa) | 3 kPa | 21–29 -kPa |
| Vacuum switch, pneumatic, preset (NO 65 -kPa) | 3 kPa | 57–73 -kPa |
| Vacuum switch, pneumatic, preset (NC 30 -kPa) | 12 kPa | 25–35 -kPa |
| Vacuum switch, pneumatic, preset (NC 70 -kPa) | 12 kPa | 60–80 -kPa |
| Vacuum switch, electro-mechanical, adjustable with screw & knob | 10 kPa | 15–95 -kPa |
| Vacuum switch, electro-mechanical, preset (Signal range 25 -kPa) | 10 kPa | 20–30 -kPa |
| Vacuum switch, inductive universal, adjustable with knob Ø6 | 2 kPa | 10–95 -kPa |

| Description | Hysteresis | Signal range |
|---|------------|--------------|
| Vacuum switch, inductive universal, adjustable with knob | 2 kPa | 10–95 -kPa |
| Vacuum switch, inductive universal, preset (Signal range 10 -kPa) | 2 kPa | 9–11 -kPa |
| Vacuum switch, inductive universal, preset (Signal range 30 -kPa) | 2 kPa | 27–33 -kPa |

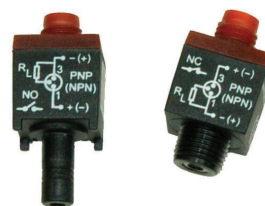
ORDERING INFORMATION

| Description | Item No. |
|---|----------|
| Vacuum switch, pneumatic, adjustable with screw and knob (NO) | 3116062 |
| Vacuum switch, pneumatic, adjustable with screw and knob (NC) | 3116063 |
| Vacuum switch, pneumatic, preset (NO 25 -kPa) | 3116084 |
| Vacuum switch, pneumatic, preset (NO 65 -kPa) | 3116085 |
| Vacuum switch, pneumatic, preset (NC 30 -kPa) | 3116087 |
| Vacuum switch, pneumatic, preset (NC 70 -kPa) | 3116088 |
| Vacuum switch, electro-mechanical, adjustable with screw and knob | 3116061 |
| Vacuum switch, electro-mechanical, preset (Signal range 25 -kPa) | 3116095 |
| Vacuum switch, inductive universal, adjustable with knob Ø6 | 0104350 |
| Vacuum switch, inductive universal, adjustable with knob | 3116064 |
| Vacuum switch, inductive universal, preset (Signal range 10 -kPa) | 3116089 |
| Vacuum switch, inductive universal, preset (Signal range 30 -kPa) | 3116090 |



Vacuum switches Mini VS4118/VS4128

- Pre-set vacuum switch with digital output.
- Durable and compact design with G1/8" 90° angle swivel connection for easy installation.
- VS4118 hardwired enables PNP NO/NC or NPN NO/NC functionality.
- VS4128 suitable for plug in I/Os. Available in PNP NO or NPN NO models.
- Possible to connect several units serially with T-connectors to provide a common output (VS4128 PNP).



Vacuum switches Mini VS4015/VS4016

- Pre-set vacuum switch with digital output.
- Very low weight and small format, push-in or thread connections.
- PNP NO/NC or NPN NO/NC output functions.

TECHNICAL DATA

| Description | Hysteresis | Signal range |
|--|------------|--------------|
| Vacuum Switch VS4128 30 -kPa, M12 PNP NO | 8 kPa | 26–34 -kPa |
| Vacuum Switch VS4128 50 -kPa, M12 PNP NO | 8 kPa | 46–54 -kPa |
| Vacuum Switch VS4118 30 -kPa, M8 PNP/NPN NO/NC | 8 kPa | 26–34 -kPa |
| Vacuum Switch VS4118 50 -kPa, M8 PNP/NPN NO/NC | 8 kPa | 46–54 -kPa |
| Vacuum Switch VS4118 70 -kPa, M8 PNP/NPN NO/NC | 8 kPa | 66–74 -kPa |
| Vacuum Switch VS4128 50 -kPa, M12 NPN NO | 8 kPa | 46–54 -kPa |
| Vacuum switch VS4015, Ø6, 30 -kPa | 5–7 kPa | 27–35 -kPa |
| Vacuum switch VS4015, Ø6, 50 -kPa | 5–7 kPa | 47–55 -kPa |
| Vacuum switch VS4015, Ø6, 70 -kPa | 5–7 kPa | 67–75 -kPa |
| Vacuum switch VS4016, G1/8" male, 30 -kPa | 5–7 kPa | 27–35 -kPa |

| Description | Hysteresis | Signal range |
|---|------------|--------------|
| Vacuum switch VS4016, G1/8" male, 50 -kPa | 5–7 kPa | 47–55 -kPa |
| Vacuum switch VS4016, G1/8" male, 70 -kPa | 5–7 kPa | 67–75 -kPa |

ORDERING INFORMATION

| Description | Item No. |
|--|----------|
| Vacuum switch VS4015, Ø6, 30 -kPa | 0110245 |
| Vacuum switch VS4015, Ø6, 50 -kPa | 0110246 |
| Vacuum switch VS4015, Ø6, 70 -kPa | 0110247 |
| Vacuum switch VS4016, G1/8" male, 30 -kPa | 0110248 |
| Vacuum switch VS4016, G1/8" male, 50 -kPa | 0110249 |
| Vacuum switch VS4016, G1/8" male, 70 -kPa | 0110250 |
| Vacuum Switch VS4118 30 -kPa, M8 PNP/NPN NO/NC | 0110730 |
| Vacuum Switch VS4118 50 -kPa, M8 PNP/NPN NO/NC | 0110731 |
| Vacuum Switch VS4118 70 -kPa, M8 PNP/NPN NO/NC | 0110732 |
| Vacuum Switch VS4128 30 -kPa, M12 PNP NO | 0110630 |
| Vacuum Switch VS4128 50 -kPa, M12 NPN NO | 0124450 |
| Vacuum Switch VS4128 50 -kPa, M12 PNP NO | 0110631 |



Vacuum switch 3-colour digital display M8

- 2 PNP outputs, NO or NC. Independently selectable for each output.
- 3-colour LCD display, easy readout.
- 7 programmable vacuum units, for example kPa, inHg, mmHg, etc.
- Dual display allows actual and set value to be displayed at the same time.
- Selectable "Key-Lock mode" with display indicator to avoid unauthorized changes.
- Selectable "Power-Save mode" with display indicator.
- Mounting brackets included.

TECHNICAL DATA

| Description | Hysteresis | Signal range |
|---|---------------------|--------------|
| Vacuum switch 3-colour digital display M8 | Adjustable, 1–8 kPa | 0–101.3 -kPa |
| Vacuum switch, MM8 | 1–5 % F.S. | 0–100 -kPa |

ORDERING INFORMATION

| Description | Item No. |
|---|----------|
| Vacuum switch 3-colour digital display M8 | 0126934 |
| Vacuum switch, adjustable, PNP NO MM8 | 0107729 |
| Vacuum switch, adjustable, NPN NO MM8 | 0107730 |



Vacuum switch, MM8

- Converts vacuum to an analogue output signal and an adjusted vacuum level to a digital output.
- Adjustable hysteresis.
- Separate cable with open ends included.



Vacuum switch, DM8

- Converts adjusted vacuum levels to 2 separate digital outputs.
- Digital vacuum level display.
- Integrated cable with M8 connector included.



Vacuum switch, LM8

- Converts an adjusted vacuum level to a digital output.
- Very low weight and small format with push-in connection.
- Integrated cable with M8 connector included.



Vacuum switch, M5

- Converts an adjusted vacuum level to a digital output signal for pressure or vacuum.
- NC in vacuum range 0–100 -kPa. NO in pressure range 0–300 kPa.
- Very low weight and small format with M5 90° angle swivel connection.
- Integrated cable with open ends included.

TECHNICAL DATA

| Description | Hysteresis | Signal range |
|--------------------|------------|---------------|
| Vacuum switch, DM8 | 2 % F.S. | 0–100 -kPa |
| Vacuum switch, LM8 | 2 % F.S. | 0–100 -kPa |
| Vacuum switch, M5 | 2 % F.S. | -100–300 -kPa |

ORDERING INFORMATION

| Description | Item No. |
|---------------------------------------|----------|
| Vacuum switch, adjustable, PNP NO LM8 | 0107731 |
| Vacuum switch PNP M5 | 0110358 |
| Vacuum switch NPN M5 | 0110359 |
| Vacuum switch, adjustable, PNP NO DM8 | 0107732 |
| Vacuum switch, adjustable, NPN NO DM8 | 0107733 |

Valves



piSAVE® release

- 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.



AQR

- Equalises pressure in vacuum gripper systems to provide fast release of product.
- Consumes no additional compressed air.
- ON/OFF activated simultaneously with the ejector.
- No additional controls required — use a single 3/2 control valve for the pump and AQR.



QR

- For vacuum pump P3010.
- Quick release by accumulating and utilising the feed-air pressure as a boost.
- ON/OFF activated simultaneously with the P3010
- Three sizes for optimising release volume with system volume.

TECHNICAL DATA

| Description | Flow, atmospheric | Volume (Quick-Release) |
|---------------------------------------|-------------------|------------------------|
| piSAVE® release G1/8" | 3.85 NI/s | – |
| piSAVE® release G1/4" | 7.85 NI/s | – |
| Atmospheric quick-release valve – AQR | 3.3 NI/s | – |
| Quick-Release module P3010 | – | 3 cm ³ |
| Quick-Release tank module P3010 | – | 30 cm ³ |
| Quick-Release tank module P3010 | – | 60 cm ³ |

ORDERING INFORMATION

| Description | Item No. |
|---|----------|
| piSAVE® release G1/4" | 0119720 |
| piSAVE® release G1/8" | 0119721 |
| Atmospheric quick-release valve – AQR. | 0111236 |
| Quick-Release tank module P3010, 30 cm ³ | 0104272 |
| Quick-Release tank module P3010, 60 cm ³ | 0104273 |



piSAVE® sense

- Vacuum check valves which allows 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 centralized 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 size or different number of leaking or sealed objects such as MDF boards, corrugated cardboards or metal sheets with a flexible handling device.
- Also suitable for objects with surface leakage around the lip of the suction cup.
- Available in four sizes with different flow performance/ characteristics to suit different degree of leakage on handled material and different size of cups.
- The smallest sizes are mainly suitable for sealed and smooth materials, such as metal and glass (02/06 for small cups and 03/60 for large cups).
- The valves are supplied separately for integration or mounted in an AI-fitting with female and male threaded connections to facilitate installation.

piSAVE® restrict



- Vacuum flow restrictors which allows a few suction cups to miss the object(s) and still maintain enough vacuum level in the system.
- Suitable for handling different size sealed sheets/objects with the same flexible lifting device.
- The vacuum flow restrictors shall be used in a centralized vacuum system, one for each suction cup.
- Designing with flow restrictors will require a smaller vacuum pump and save energy.
- Available in three sizes with different flow performance/ characteristics to suit different size suction cups.
- The restrictors are integrated in an AI-fitting with female and male threaded connections to facilitate installation.

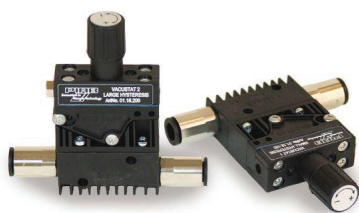
TECHNICAL DATA

| Description | Pump flow/cup min. | Pump flow/cup to close valve | Leakage flow, max. |
|--|------------------------|------------------------------|--------------------|
| piSAVE® sense 02/60 (yellow) | 0.001 (@ 45 -kPa) NI/s | 0.21 (@ 3 -kPa) NI/s | – |
| piSAVE® sense 03/60 (green) | 0.06 (@ 45 -kPa) NI/s | 0.37 (@ 3 -kPa) NI/s | – |
| piSAVE® sense 04/60 (blue) | 0.15 (@ 45 -kPa) NI/s | 0.55 (@ 7 -kPa) NI/s | – |
| piSAVE® sense 05/60 (red) | 0.25 (@ 45 -kPa) NI/s | 0.72 (@ 11 -kPa) NI/s | – |
| piSAVE® restrict multiple port fitting 0.7 | – | – | 0.08 NI/s |

| Description | Pump flow/cup min. | Pump flow/cup to close valve | Leakage flow, max. |
|--|--------------------|------------------------------|--------------------|
| piSAVE® restrict multiple port fitting 1.0 | – | – | 0.16 Nl/s |
| piSAVE® restrict multiple port fitting 1.3 | – | – | 0.27 Nl/s |

ORDERING INFORMATION

| Description | Item No. |
|---|----------|
| piSAVE® sense 02/60 (yellow), 100p, incl. Assembly tool | 0202395 |
| piSAVE® sense 02/60 (yellow), 10p, incl. Assembly tool | 0202394 |
| piSAVE® sense 03/60 (green), 100p, incl. Assembly tool | 0202427 |
| piSAVE® sense 03/60 (green), 10p, incl. Assembly tool | 0202424 |
| piSAVE® sense 04/60 (blue), 100p, incl. Assembly tool | 0202428 |
| piSAVE® sense 04/60 (blue), 10p, incl. Assembly tool | 0202425 |
| piSAVE® sense 05/60 (red), 100p, incl. Assembly tool | 0202429 |
| piSAVE® sense 05/60 (red), 10p, incl. Assembly tool | 0202426 |
| piSAVE® sense Assembly tool 16mm | 0202589 |
| piSAVE® sense Multiple port fitting 02/60 (yellow) | 0202396 |
| piSAVE® sense Multiple port fitting 03/60 (green) | 0128719 |
| piSAVE® sense Multiple port fitting 04/60 (blue) | 0128731 |
| piSAVE® sense Multiple port fitting 05/60 (red) | 0128733 |
| piSAVE® restrict multiple port fitting 0.7 | 0129339 |
| piSAVE® restrict multiple port fitting 1.0 | 0129340 |
| piSAVE® restrict multiple port fitting 1.3 | 0129341 |



piSAVE® onoff

- 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.



Blow-off Check valve

- Prevents vacuum from being pulled through the blow-off lines, which means faster response time and completely independent vacuum units.
- Reliable quick-release function even in larger systems with several units, due to the very low feed pressure required to break away for blow-off.
- Suitable in applications where cleaning of the suction cup filters or cooling of the object to be picked is important.

TECHNICAL DATA

| Description | Flow | Flow rate |
|----------------------|------------------------------------|------------------------------|
| piSAVE® onoff | 7.3 NI/s (@ P1=6 bar & Δp=0.5 bar) | – |
| Blow-off Check valve | – | 1.5–2.8 NI/s (@ 0.3-0.7 MPa) |

ORDERING INFORMATION

| Description | Item No. |
|--|----------|
| piSAVE® onoff with small hysteresis | 0118100 |
| piSAVE® onoff with large hysteresis | 0118200 |
| Blow-off Check valve 1/8" NPSF female. | 0115314 |
| Blow-off Check valve G1/4" female | 0117337 |

Valves – Vacuum check valves



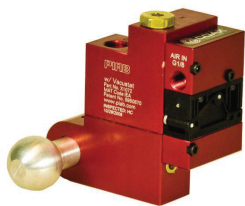
Vacuum Check Valve VT-1H

- Check valve that traps vacuum in sealed applications for safe operation.
- Built-in blow off check valve for fast release of object.
- Available in lock pin 16, 19 or ball joint mountings, industry standard.
- Available with level compensator to compensate for differences in level of object.



Vacuum Check Valve VT-1H with COAX®

- Two-stage COAX® cartridge MINI Pi12-2 integrated.
- Check valve that traps vacuum in sealed applications for safe operation.
- Built-in blow off check valve for fast release of object.
- Available in lock pin 16, 19 or ball joint mountings, industry standard.
- Available with level compensator to compensate for differences in level of object.



Vacuum Check Valve VT-1H Vacustat with COAX®

- Two-stage COAX® cartridge MINI Pi12-2 integrated.
- Check valve that traps vacuum in sealed applications for safe operation.
- Built-in blow off check valve for fast release of object.
- Integrated energy-saving device, Vacustat results in virtually no air consumption in sealed applications.
- Available in lock pin 16, 19 or ball joint mountings, industry standard.
- Available with level compensator to compensate for differences in level of object.

TECHNICAL DATA

| Description | Vacuum flow, max. |
|--|-------------------|
| Vacuum Check Valve VT-1H | 0.68 NI/s |
| Vacuum Check Valve VT-1H with COAX® | 0.68 NI/s |
| Vacuum Check Valve VT-1H Vacustat with COAX® | 0.68 NI/s |

ORDERING INFORMATION

| Description | Item No. |
|--|----------|
| Vacuum Check Valve VT-1H, NPT threads, Lock pin 19, Right hand connection | 0125579 |
| Vacuum Check Valve VT-1H, NPT threads, Lock pin 19, Left hand connection | 0125580 |
| Vacuum Check Valve VT-1H, NPT threads, Lock pin 16, Right hand connection | 0125581 |
| Vacuum Check Valve VT-1H, NPT threads, Lock pin 16, Left hand connection | 0125582 |
| Vacuum Check Valve VT-1H, NPT threads, Ball joint, Right hand connection | 0125583 |
| Vacuum Check Valve VT-1H, NPT threads, Ball joint, Left hand connection | 0125584 |
| Vacuum Check Valve VT-1H, G threads, Lock pin 19, Right hand connection | 0125573 |
| Vacuum Check Valve VT-1H, G threads, Lock pin 19, Left hand connection | 0125574 |
| Vacuum Check Valve VT-1H, G threads, Lock pin 16, Right hand connection | 0125575 |
| Vacuum Check Valve VT-1H, G threads, Lock pin 16, Left hand connection | 0125576 |
| Vacuum Check Valve VT-1H, G threads, Ball joint, Right hand connection | 0125577 |
| Vacuum Check Valve VT-1H, G threads, Ball joint, Left hand connection | 0125578 |
| Vacuum Check Valve VT-1H with level compensator, NPT threads, Lock pin 19, Right hand connection | 0121043 |
| Vacuum Check Valve VT-1H with level compensator, NPT threads, Lock pin 19, Left hand connection | 0121042 |
| Vacuum Check Valve VT-1H with level compensator, NPT threads, Lock pin 16, Right hand connection | 0121029 |
| Vacuum Check Valve VT-1H with level compensator, NPT threads, Lock pin 16, Left hand connection | 0121030 |
| Vacuum Check Valve VT-1H with level compensator, NPT threads, Ball joint, Right hand connection | 0121061 |
| Vacuum Check Valve VT-1H with level compensator, NPT threads, Ball joint, Left hand connection | 0121060 |
| Vacuum Check Valve VT-1H with level compensator, G threads, Lock pin 19, Right hand connection | 0121014 |
| Vacuum Check Valve VT-1H with level compensator, G threads, Lock pin 19, Left hand connection | 0120992 |
| Vacuum Check Valve VT-1H with level compensator, G threads, Lock pin 16, Right hand connection | 0121009 |

| Description | Item No. |
|--|----------|
| Vacuum Check Valve VT-1H with level compensator, G threads, Lock pin 16, Left hand connection | 0109231 |
| Vacuum Check Valve VT-1H with level compensator, G threads, Ball joint, Right hand connection | 0121020 |
| Vacuum Check Valve VT-1H with level compensator, G threads, Ball joint, Left hand connection | 0120993 |
| Vacuum Check Valve VT-1H COAX®, NPT threads, Lock pin 19, Right hand connection | 0121039 |
| Vacuum Check Valve VT-1H COAX®, NPT threads, Lock pin 19, Left hand connection | 0121038 |
| Vacuum Check Valve VT-1H COAX®, NPT threads, Lock pin 16, Right hand connection | 0121025 |
| Vacuum Check Valve VT-1H COAX®, NPT threads, Lock pin 16, Left hand connection | 0121026 |
| Vacuum Check Valve VT-1H COAX®, NPT threads, Ball joint, Right hand connection | 0121057 |
| Vacuum Check Valve VT-1H COAX®, NPT threads, Ball joint, Left hand connection | 0121056 |
| Vacuum Check Valve VT-1H COAX®, G threads, Lock pin 19, Right hand connection | 0119573 |
| Vacuum Check Valve VT-1H COAX®, G threads, Lock pin 19, Left hand connection | 0111147 |
| Vacuum Check Valve VT-1H COAX®, G threads, Lock pin 16, Right hand connection | 0121007 |
| Vacuum Check Valve VT-1H COAX®, G threads, Lock pin 16, Left hand connection | 0109276 |
| Vacuum Check Valve VT-1H COAX®, G threads, Ball joint, Right hand connection | 0121018 |
| Vacuum Check Valve VT-1H COAX®, G threads, Ball joint, Left hand connection | 0110435 |
| Vacuum Check Valve VT-1H COAX® with level compensator, NPT threads, Lock pin 19, Right hand connection | 0121045 |
| Vacuum Check Valve VT-1H COAX® with level compensator, NPT threads, Lock pin 19, Left hand connection | 0121044 |
| Vacuum Check Valve VT-1H COAX® with level compensator, NPT threads, Lock pin 16, Right hand connection | 0121031 |
| Vacuum Check Valve VT-1H COAX® with level compensator, NPT threads, Lock pin 16, Left hand connection | 0121032 |
| Vacuum Check Valve VT-1H COAX® with level compensator, NPT threads, Ball joint, Right hand connection | 0121063 |
| Vacuum Check Valve VT-1H COAX® with level compensator, NPT threads, Ball joint, Left hand connection | 0121062 |

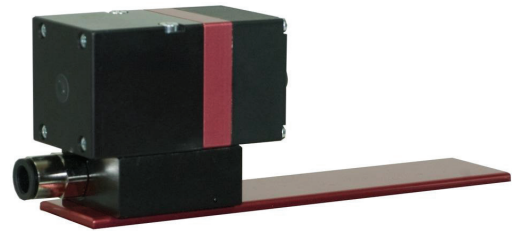
| Description | Item No. |
|--|----------|
| Vacuum Check Valve VT-1H COAX® with level compensator, G threads, Lock pin 19, Right hand connection | 0121015 |
| Vacuum Check Valve VT-1H COAX® with level compensator, G threads, Lock pin 19, Left hand connection | 0120991 |
| Vacuum Check Valve VT-1H COAX® with level compensator, G threads, Lock pin 16, Right hand connection | 0121010 |
| Vacuum Check Valve VT-1H COAX® with level compensator, G threads, Lock pin 16, Left hand connection | 0109278 |
| Vacuum Check Valve VT-1H COAX® with level compensator, G threads, Ball joint, Right hand connection | 0121021 |
| Vacuum Check Valve VT-1H COAX® with level compensator, G threads, Ball joint, Left hand connection | 0120990 |
| Vacuum Check Valve VT-1H Vacustat with COAX®, NPT threads, Ball joint, Right hand connection | 0127837 |
| Vacuum Check Valve VT-1H Vacustat with COAX®, NPT threads, Ball joint, Left hand connection | 0127836 |
| Vacuum Check Valve VT-1H Vacustat with COAX®, G threads, Lock pin 19, Right hand connection | 0121013 |
| Vacuum Check Valve VT-1H Vacustat with COAX®, G threads, Lock pin 19, Left hand connection | 0120995 |
| Vacuum Check Valve VT-1H Vacustat with COAX®, G threads, Lock pin 16, Right hand connection | 0121008 |
| Vacuum Check Valve VT-1H Vacustat with COAX®, G threads, Lock pin 16, Left hand connection | 0120994 |
| Vacuum Check Valve VT-1H Vacustat with COAX®, G threads, Ball joint, Right hand connection | 0121019 |
| Vacuum Check Valve VT-1H Vacustat with COAX®, G threads, Ball joint, Left hand connection | 0119676 |
| Vacuum Check Valve VT-1H Vacustat with COAX® with level compensator, G threads, Lock pin 19, Right hand connection | 0121016 |
| Vacuum Check Valve VT-1H Vacustat with COAX® with level compensator, G threads, Lock pin 19, Left hand connection | 0120998 |
| Vacuum Check Valve VT-1H Vacustat with COAX® with level compensator, G threads, Lock pin 16, Right hand connection | 0121011 |
| Vacuum Check Valve VT-1H Vacustat with COAX® with level compensator, G threads, Lock pin 16, Left hand connection | 0120996 |
| Vacuum Check Valve VT-1H Vacustat with COAX® with level compensator, G threads, Ball joint, Right hand connection | 0121022 |
| Vacuum Check Valve VT-1H Vacustat with COAX® with level compensator, G threads, Ball joint, Left hand connection | 0120997 |

Regulators



piSAVE® optimize

- 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 (optimized).
- 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® optimize 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.



PCC (Piab Cruise Control)

- For vacuum pump P6010.
- Programmable for constant vacuum level.
- The signal input regulates the feed pressure to maintain a constant vacuum level.
- Integrated analogue vacuum sensor.

TECHNICAL DATA

| Description | Vacuum flow |
|---------------------------|--------------|
| piSAVE® optimize | 1.67–15 NI/s |
| PCC (Piab Cruise Control) | 0–18.3 NI/s |

ORDERING INFORMATION

| Description | Item No. |
|---|---------------------------|
| piSAVE® optimize stand-alone 25-70 -kPa G3/8" | 0128999 |
| piSAVE® optimize standalone 25-70 -kPa 3/8" NPT | 0129000 |
| piSAVE® optimize upgrade kit piCLASSIC/Classic | 0129002 |
| PCC (Piab Cruise Control) | PCC (Piab Cruise Control) |



Pilot regulator

- Pilot-operated pressure regulator with secondary pressure relief and flow compensation.
- Suitable for remote control.

TECHNICAL DATA

| Description | Flow |
|---|--------------------------------|
| Pressure regulator, pilot operated, G1/4" | 9 NI/s (@ P1=0.7 & P2=0.6 MPa) |
| Regulator 1/4", manometer | 9 NI/s (@ P1=0.8 & P2=0.7 MPa) |

ORDERING INFORMATION

| Description | Item No. |
|---|----------|
| Pressure regulator, pilot operated, G1/4" | 0114283 |
| Regulator 1/4", manometer | 0113123 |



Regulator

- Regulator for optimising feed pressure to vacuum pumps or smaller vacuum systems.
- Manometer for feed pressure control.

Silencers



Silencer MINI/MIDI

- Reduces noise from exhaust on MINI/ MIDI piINLINE®.



Silencers

- Reduce noise from exhaust.
- Flow-through design.



Silencer COAX®

- Reduces noise from the exhaust.
- Compatible with aluminium holders for MINI and MIDI COAX® cartridges.
- Simple snap locking when mounting.
- Through-flow design that eliminates the risk of impaired performance due to clogging of the silencer.

TECHNICAL DATA

| Description | Noise level, reduction |
|-------------------------|------------------------|
| Silencer piINLINE® MINI | 10 dBA |
| Silencer piINLINE® MIDI | 15 dBA |
| Silencer | 10 dBA |
| Silencer COAX® | > 10 dBA |

ORDERING INFORMATION

| Description | Item No. |
|---|----------|
| Silencer pi INLINE® MINI | 0125466 |
| Silencer pi INLINE® MIDI | 0123031 |
| Silencer 1" NPSF | 0113003 |
| Silencer G1" | 0112499 |
| Silencer G1½" | 0103224 |
| Silencer G2½" | 0117782 |
| Silencer G3/4" with thread insert 1" - 3/4" | 0126362 |
| Silencer G3/8" | 3216009 |
| Silencer G3/4" | 3216002 |
| Silencer COAX® MINI | 0111977 |
| Silencer COAX® MIDI | 0111976 |

Vacuum Filters



Vacuum filters

- To filter dust and other small particles from the vacuum flow.
- Reduces the risk of operation breakdown or stoppage in the pump.
- Replaceable filter element.
- Available with special filter element with increased filter area.

Vacuum filters S

- To filter dust and other small particles from the vacuum flow.
- Reduces the risk of operation breakdown or stoppage in the pump.

In-line filters

- Translucent, inert polypropylene housing allows for visual inspection.
- These miniature filters can be used on compressed air lines or vacuum lines to protect vacuum pumps, vacuum switches and valves from contamination.
- Filter is constructed of chemically inert porous polyethylene and has a recommended working pressure up to 0.45 MPa.

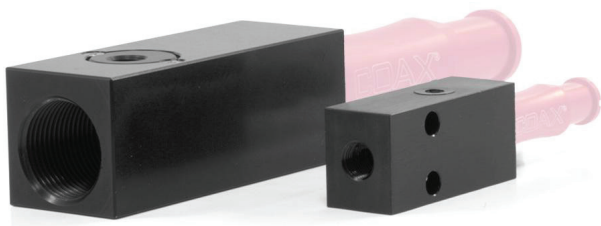
TECHNICAL DATA

| Description | Pressure | Removal efficiency | Flow, nominal |
|--|----------------|--------------------|---------------|
| Vacuum filter G1½" (5 µm) & G3/4" (5 µm) | -0.1–0 MPa | 5 µm | 5.8 NI/s |
| Vacuum filter G1½" (5 µm) | -0.1–0 MPa | 5 µm | 9 NI/s |
| Vacuum filter G1/8", 1/8" NPT & 1/4" NPT | -0.1–0 MPa | 10 µm | 1.4 NI/s |
| Vacuum filter G3/8" & 3/8" NPT | -0.1–0 MPa | 10 µm | 2.5 NI/s |
| Vacuum filter G1½", G3/4", 1/2" NPT & 3/4" NPT | -0.1–0 MPa | 10 µm | 15 NI/s |
| Vacuum filter G1", G1½", 1" NPT & 1 1/2" NPT | -0.1–0 MPa | 10 µm | 42 NI/s |
| Vacuum filter 2 1/2", steel | -0.1–0 MPa | 5 µm | 100 NI/s |
| Vacuum filter 1 1/2", steel | -0.1–0 MPa | 5 µm | 37.7 NI/s |
| Vacuum filter 1", steel | -0.1–0 MPa | 5 µm | 16.5 NI/s |
| Vacuum filter 2", steel | -0.1–0 MPa | 5 µm | 82.6 NI/s |
| In-line filter | 0.45 MPa (max) | 25 µm | 0.5 NI/s |

ORDERING INFORMATION

| Description | Item No. |
|----------------------------------|----------|
| Vacuum filter G1" (10 µm) | 3116672 |
| Vacuum filter G1/2" (10 µm) | 3116651 |
| Vacuum filter G1/2" (5 µm) | 0110521 |
| Vacuum filter G1/8" (10 µm) | 3116670 |
| Vacuum filter G1½" (10 µm) | 3116653 |
| Vacuum filter G1½" (5 µm) | 0110523 |
| Vacuum filter G3/4" (10 µm) | 3116652 |
| Vacuum filter G3/4" (5 µm) | 0110522 |
| Vacuum filter G3/8" (10 µm) | 3116671 |
| Vacuum filter 1 1/2", steel | 3116654 |
| Vacuum filter 1", steel | 3116709 |
| Vacuum filter 2 1/2", steel | 0111311 |
| Vacuum filter G2", steel | 3116710 |
| Vacuum filter, 2 1/2" NPT steel | 0128460 |
| In-line filter 25 micron, barbed | 3116705 |
| In-line filter 25 micron, luer | 3116706 |
| In-line filter 10 micron, barbed | X7438 |
| In-line filter 10 micron, luer | X6621 |

Other



Body for COAX® cartridge

- Aluminium bodies for COAX® MINI and MIDI cartridges.
- All 2-stage and 3-stage cartridges, equipped with a red aluminium holder, will fit.
- The mini body has a stackable design with extra port for sensing or blow-off.
- The midi body has a special vacuum-exhaust inline design, which minimizes the influence of dust on the cartridge.
- Cartridge has to be ordered separately.



Vacuum gauge and manometers

- Analogue indicator, springjoint – lever system.
- The instruments include nut for installation on a panel.

TECHNICAL DATA

| Description | Signal range |
|--|--------------|
| Vacuum gauge 100 -kPa, with nut / -30 inHg | 0–100 -kPa |
| Manometer 250 kPa | 0–250 -kPa |
| Manometer 1 MPa | 0–1000 -kPa |

ORDERING INFORMATION

| Description | Item No. |
|--|----------|
| Body for COAX® MIDI cartridge Inline | 0119309 |
| Body for COAX® MINI cartridge 2x1/8" V | 0129473 |
| Manometer 150 psi/1 MPa | 3101603 |
| Manometer 36.25 psi/250 kPa | 3101626 |
| Vacuum gauge 100 -kPa, with nut / -30 inHg | 3101602 |

BONDY

INDUSTRIAL EQUIPMENT SUPPLIER



Transmission



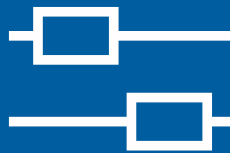
Handling



Motor & Gear



Vacuum Conveying



Linear



Support

See our products and solutions at

www.bondy.dk

For ordering and questions call (+45) 70 15 14 14