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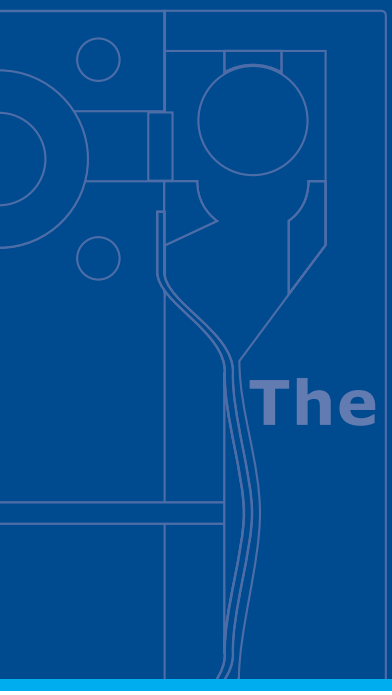
Air Control Pro



Verderair
The most efficient
diaphragm pump

VERDER
passion for pumps

Air **Control Pro**

To have an optimum use and life-time of your AODD (Air Operated Double Diaphragm) pump, Verderair has developed the AIR CONTROL PRO. This is a range of accessories to help you to regulate the flow of your AODD and to protect the air valve and the diaphragms against early failure.

Filter - regulator with semi automatic drain(*)

The regulator will keep the compressed air pressure supply to your pump on a constant set pressure. By changing the pressure of the compressed air supply, the working curve of your AODD pump will be changed. The maximum discharge pressure generated by the AODD pump will be equal to the set pressure of the pressure regulator.

The filter will separate solid parts and water drops out of the air supply to your pump and collect them in the plastic bowl from where they can be drained. By using this filter the air valve of your pump will be protected against stalling due to particles in the air supply.

Filter / regulator*	For VA sizes	Max air flow l/min	Control range bar	Air connections BSP (f)	Weight kg	Article no.
ACP1/4-FR	08-10-15-20	1500	0.5 - 16	1/4"	0.383	857.8011
ACP1/2-FR	25-40-50	3500	0.5 - 16	1/2"	0.911	857.8008
ACP3/4-FR	80	12000	0.5 - 16	3/4"	2.226	857.8012

Throttle valve

To regulate the flow generated by your AODD, you will need to regulate the compressed air flow to your pump. By using this throttling valve in combination with a pressure regulator, you are sure that the pump will always have enough power to start (=pressure) but can be regulated on even low flow rates by the volume (=flow) of compressed air, supplied to your pump.

Throttle valve	For VA sizes	Max air flow l/min	Air connections BSP(f)	Weight kg	Article no.
ACP1/4-TV	08-10-15-20	1100	1/4"	0.339	857.8020
ACP1/2-TV	25-40-50	3600	1/2"	0.812	857.8009

Soft start valve(*)

After opening of the on/off valve, the soft start valve will supply only after a set time the complete air pressure to your pump. This gives the pump the time to start up slowly and will increase the life time of your diaphragms.

Soft start valve*	For VA sizes	Max air flow l/min	Air Connections BSP(f)	Weight kg	Article no.
ACP1/4-ST	08-10-15-20	1000	1/4"	0.330	857.8017
ACP1/2-ST	25-40-50	4000	1/2"	0.720	857.8010
ACP3/4-ST	80	12000	3/4"	1.599	857.8019

3/2 manual on/off valve(*)

With this valve you can open/close the compressed air supply line to your pump manually.

3/2 manual on/off valve*	For VA sizes	Max air flow l/min	Air Connections BSP(f)	Weight kg	Article no.
ACP1/4-BV	08-10-15-20	2800	1/4"	0.348	857.8013
ACP1/2-BV	25-40-50	11000	1/2"	0.785	857.8007
ACP3/4-BV	80	25000	3/4"	1.959	857.8014

3/2 electrical on/off valve

With this valve you can open/close the compressed air supply line to your pump with an electrical signal.

3/2 electric on/off valve	For VA sizes	Max air flow l/min	Air Connections BSP(f)	Weight kg	Voltage	Article no
ACP1/4-CV24V	08-10-15-20	900	1/4"	0.458	24 V DC	857.8015
ACP1/2-CV24V	25-40-50	4000	1/2 "	1.043	24 V DC	857.8006
ACP3/4-CV24V	80	12500	3/4"	2.261	24 V DC	857.8016

Flow Stop valve with reset button

An AODD pump will speed up by running without liquid and will consume a lot of air which is not used to move liquid. To protect your pump from dry-running you can use the Flow Stop valve with reset button. This value will limited the maximum air flow to your pump to a set valve. Once the set value is reached (dry -running) the pump will be switched off. A restart can only be done manually by pushing the reset button.

Flow stop valve with reset	For VA sizes	Max air flow l/min	Air Connections BSP(f)	Weight kg	Article no
ACP1/2-FS+R	25-40-50	3000	1/2""	1,41	857.8052

For possible combinations contact your local supplier

The above mentioned valves/regulator can be combined to a set which is easy to install in the compressed air supply line to your pump. We are recommending to use the complete set on Verderair and Verderair Pure to be assured of the optimum life time of the air valve and the diaphragms of your pump.

(*) Atex :

The apparatus are according to Directive 94/9/EC, article 1, parag.2 and 3,

a) no safety, controlling and regulating device
b) no equipment
c) no protective system
d) no component

The medium used is compressed air or inert gas that are generated and processed outside the potentially explosive atmosphere. The apparatus are not given an ATEX marking. An internal Ignition risk analysis was carried out. The springs used have been calculated and the results are lower than the limit values.
The apparatus can be used as follows in explosive atmospheres in accordance with the applicable erection regulations on machines, devices and plants, such as e.g. EN1127-1, EN60079-14, etc.:

- In Zone 1 and Zone 2 in the explosion groups IIA, IIB and IIC.
- In Zone 21 and Zone 22 in the explosion groups IIIA and IIIB.

Any questions? For more information, please visit our website **www.verderair.com** or call your local supplier.

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