
ACTIVE DRIVER 1

NEW



ACTIVE DRIVER 1



GENERAL DATA

ACTIVE DRIVER 1 is an innovative integrated system for controlling variable-speed electric pumps by keeping pressure constant at variable flow rates. The user-friendly interface makes it quick and easy to calibrate pressure set points and view settings and error messages.

ACTIVE DRIVER 1 comprises:

- an inverter
- a pressure sensor
- a flow sensor

Advantages of ACTIVE DRIVER 1 :

- enhanced comfort
- energy saving
- silent-running
- compact
- overpressures eliminated
- extended pump lifetime
- trouble-free installation
- compatible with a large number of pump types

ENERGY SAVING:

Test performed with a 1.1kW pump with head set to 30 mca.

FLOW (l/min.)	STATISTIC FLOW OPERATION	DIRECT CONNECTION CONSUMPTION kW	CONSUMPTION WITH ACTIVE DRIVER 1 kW	POWER DIFFERENCE	ENERGY SAVED IN A YEAR (8760 hours) kW
5	20%	1,295	0,185	1,110	1.945
10	40%	1,388	0,555	0,833	2.917
20	20%	1,480	0,740	0,740	1.296
40	9%	1,573	1,110	0,463	365
70	6%	1,794	1,570	0,224	118
100	5%	1,850	1,850	0,000	0
TOTAL ANNUAL SAVING kW					6.641

The following protections:

ACTIVE DRIVER 1 features a malfunction protection system. Any faults are indicated on the display and, depending on the type of error, the pump may switch off system provides.

- dry-running protection
- overcurrent protection
- overheating protection
- surge/brownout protection

RESETTING ERROR CONDITIONS

For some malfunctions and shutdowns, the system makes a certain number of attempts to automatically reset the pump.

The following table shows the sequences of the operations performed by ACTIVE DRIVER 1 for the various kinds of shutdown:

AUTOMATIC ERROR RESETS		
MESSAGE ON DISPLAY	DESCRIPTION	AUTOMATIC RESET SEQUENCE
BL	No water	- One attempt every 10 minutes for up to 6 attempts - One attempt every hour for up to 24 attempts - One attempt every 24 hours for up to 30 attempts
LP	Voltage too low	- Resets when voltage returns to within 220V - 20% + 10%
Ot	Power terminals overheated	- Resets when the temperature of the power terminals falls below 70°C
OC	Overcurrent	- One attempt every 10 minutes for up to 6 attempts

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TECHNICAL FEATURES:

- Max. operating current of motor: 9.3 Amps
- Input voltage: 230V single-phase
- Pump voltage: 230V three-phase
- Input frequency: 50Hz
- Installation: vertical or horizontal
- Maximum temperature of liquid: 50°C
- Max. operating temperature: 60°C
- Max. pressure: 10 bar
- Pressure adjustment range: 1 to 9 bar
- Suction inlet diameter (DNM): 1 1/4" male
- Delivery outlet diameter (DNA): 1 1/2" female
- Protection level: IP55

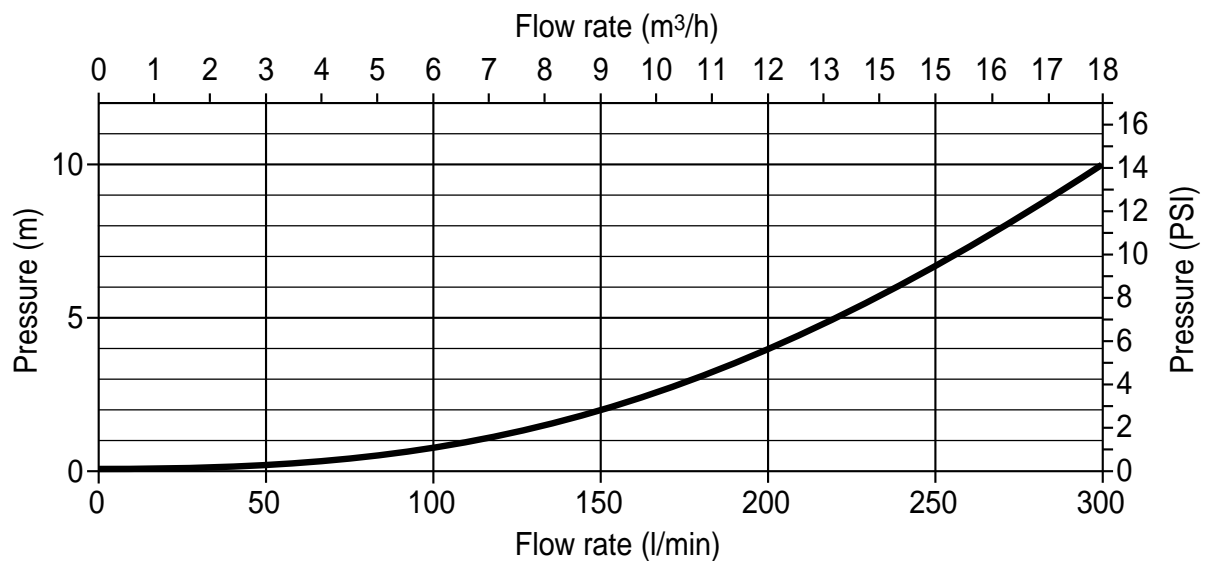
ACTIVE DRIVER 1 the system can also be used in parallel, i.e.: one device for each pump.

DIMENSIONS AND WEIGHT

MODEL	L	OVERALL DIMENSIONS		WEIGHT Kg
		H	P	
ACTIVE DRIVER 1	22	28	18	3.650

DIAGRAM OF PRESSURE LOSSES

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