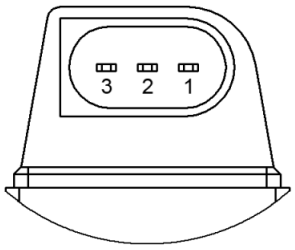
Pierburg „CWA100-3“

Pierburg's new electric water pump in the medium capacity range.



1 - Power (GND)
2 - Power (12V)
3 - Signal (PWM)

Pierburg CWA100-3

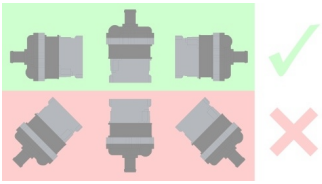
The CWA100-3 is a successor of the CWA100-2 we are also offering. The dimensions and the weight is nearly the same. New is the freshly designed impeller housing with slightly shorter water in and outlets and the bigger electrical connector. This improves the handling of bigger cable diameters significantly.
Suitable for instance for intercooling in combustion engine vehicles and cooling of various systems in electrical vehicles.

Specifications:

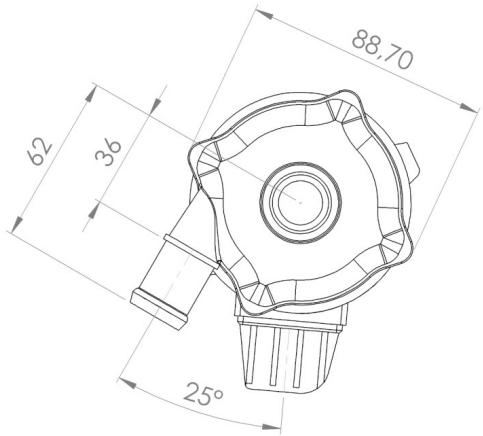
- Name: "Pierburg CWA100-3"
- Operation voltage: 8 to 16 V (Nominal: 13.5 V) (Full hydraulic power @ 13.5 to 16 V)
- Weight: approx. 1.0 kg
- Current consumption: 9.5A max. / (I < 100mA in standby mode)
- Nominal diff. Pressure: ≥ 1.00 bar *
- Flow rate: approx. 25 l/min @ 1.00bar / ~45 l/min @ 0.50bar
- Speed: approx. 24 to 7000 rpm
- Temperature range: -40°C – 125°C (water) / -40°C – 125°C (ambient)
- Protection: IP 6K9K + IP X7
- Inlet / outlet nozzle removable / Four possible positions
- Part numbers: Pierburg: 7.04934.54.0 // VAG: 4N0965567

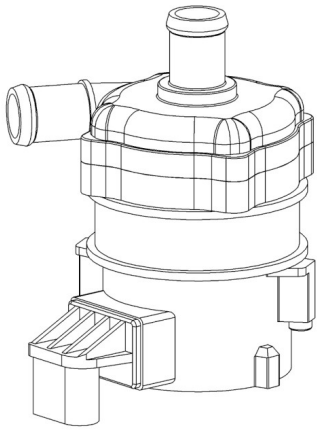
Notes:

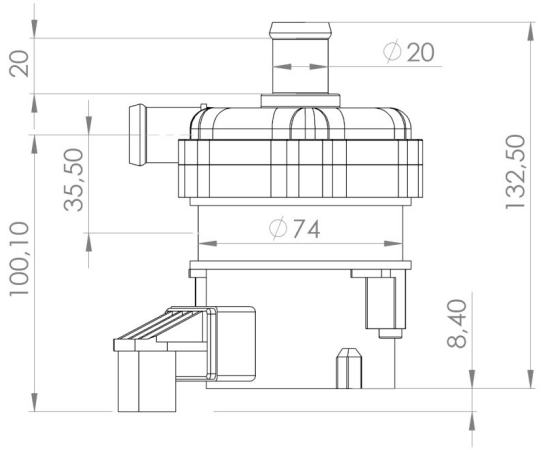
- Power (speed) reduction below -5°C.
- Works with water, water/glycol mixtures and “other liquids” (according to Pierburg)
- The PWM input is equipped with a 2 kOhm pull-up resistor.
- Flow diagram @ 80°C, 13.5V, Water/Glycol 50/50

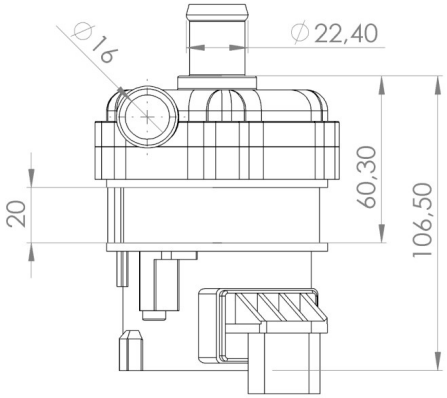


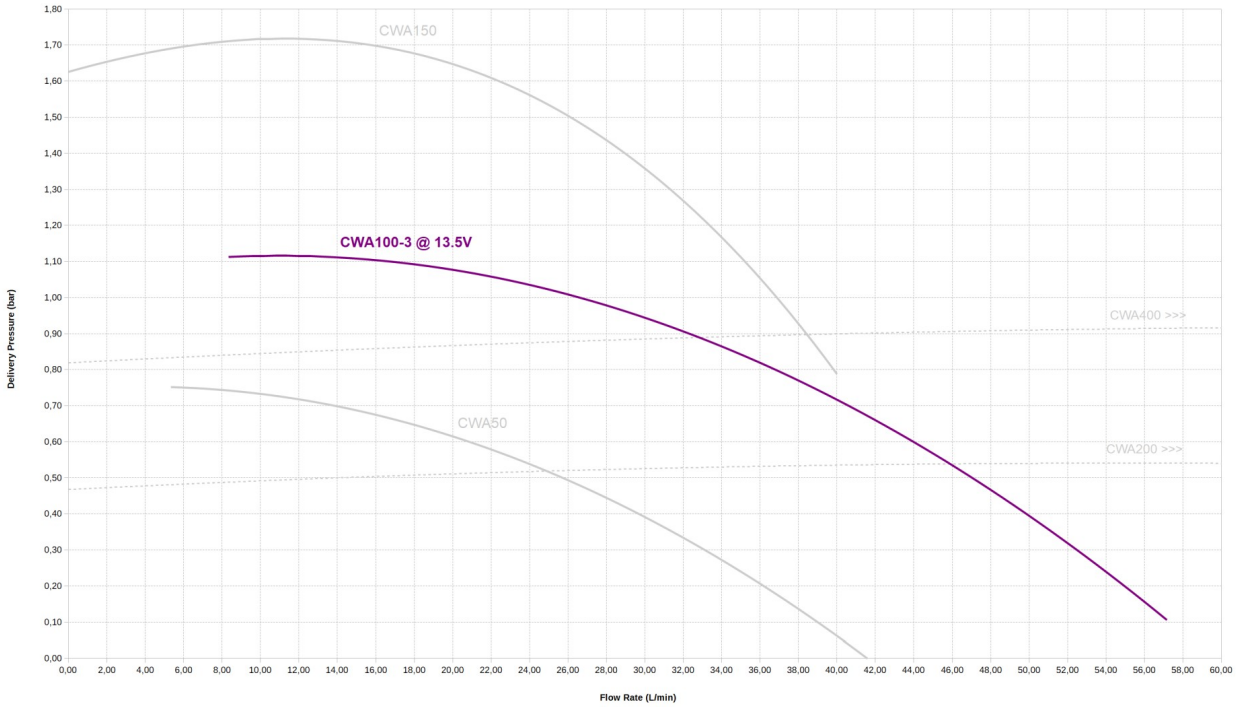
Know-how:
* Pump pressure is not the same as the system pressure.
Those pumps can of course be used in normal automotive cooling systems with system pressures in the range of 0.8 to 1.2 bar for instance.
The pump pressure or differential pressure expresses the ´resistance´ of which the pump has to work against. (more or less)


88,70
62
36
25°




20
∅20
35,50
∅74
100,10
132,50
8,40


∅16
∅22,40
20
60,30
106,50


CWA150
CWA100-3 @ 13.5V
CWA400 >>>
CWA50
CWA200 >>>
Delivery Pressure (bar)
Flow Rate (L/min)
1,80
1,70
1,60
1,50
1,40
1,30
1,20
1,10
1,00
0,90
0,80
0,70
0,60
0,50
0,40
0,30
0,20
0,10
0,00
0,00
2,00
4,00
6,00
8,00
10,00
12,00
14,00
16,00
18,00
20,00
22,00
24,00
26,00
28,00
30,00
32,00
34,00
36,00
38,00
40,00
42,00
44,00
46,00
48,00
50,00
52,00
54,00
56,00
58,00
60,00