Pierburg “CWA50“

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

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

Pierburg CWA50

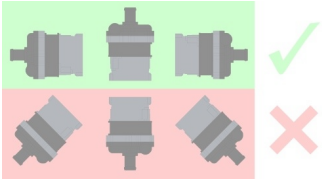
The CWA50 is the smallest version of the CWA type pumps from Pierburg.
Suitable for intercooling in combustion engine vehicles and cooling of various systems in electrical vehicles.

Specifications:

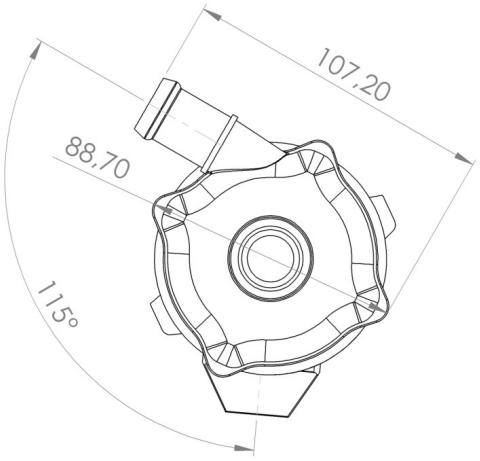
- Name: "Pierburg CWA50"
- Operation voltage: 8 to 16 V (Nominal: 12.5 V) (Full hydraulic power @ 12.5 to 16 V)
- Weight: approx. 1.0 kg
- Current consumption: 5.0 to 7.0A / (approx. 0.2mA in standby mode)
- Nominal diff. pressure: ≥ 0.53 bar *
- Flow rate: approx. 25 l/min @ 0.53bar / 35 l/min @ 0.25bar
- Speed: 24 to 6000 rpm
- Temperature range: -40°C – 110°C (water) / -40°C – 120°C (ambient)
- Protection: IP 67
- Inlet / outlet nozzle removable / Four possible positions
- Part numbers: Pierburg: 7.06033.31.0 / 7.06033.32.0
  Porsche: 95860656700 // VW: 7P0965567 / 8K0965567B

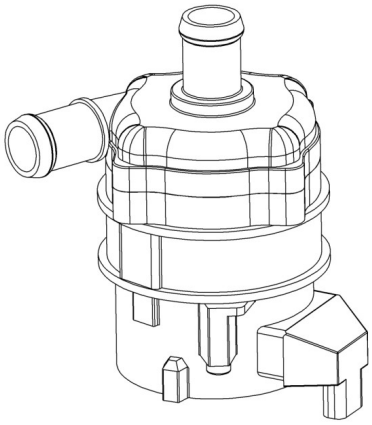
Notes:

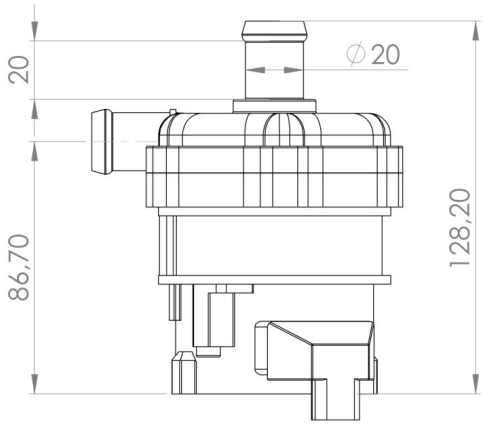
- Power (speed) reduction below 0°C and/or below 12.5V.
- Works with water, water/glycol mixtures and “other liquids” (according to Pierburg)
- The PWM input is equipped with a 2 kOhm pull-up resistor.
- Flow diagram @ 80°C, 12.5V, Water/Glycol 50/50

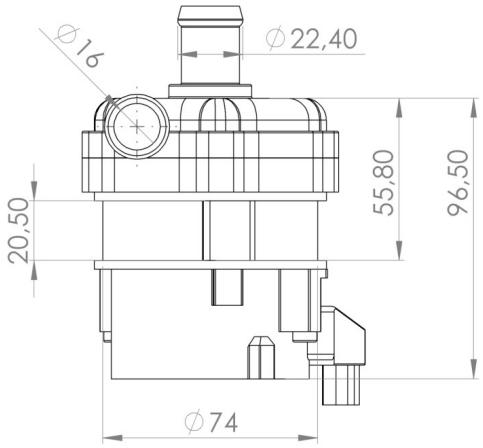


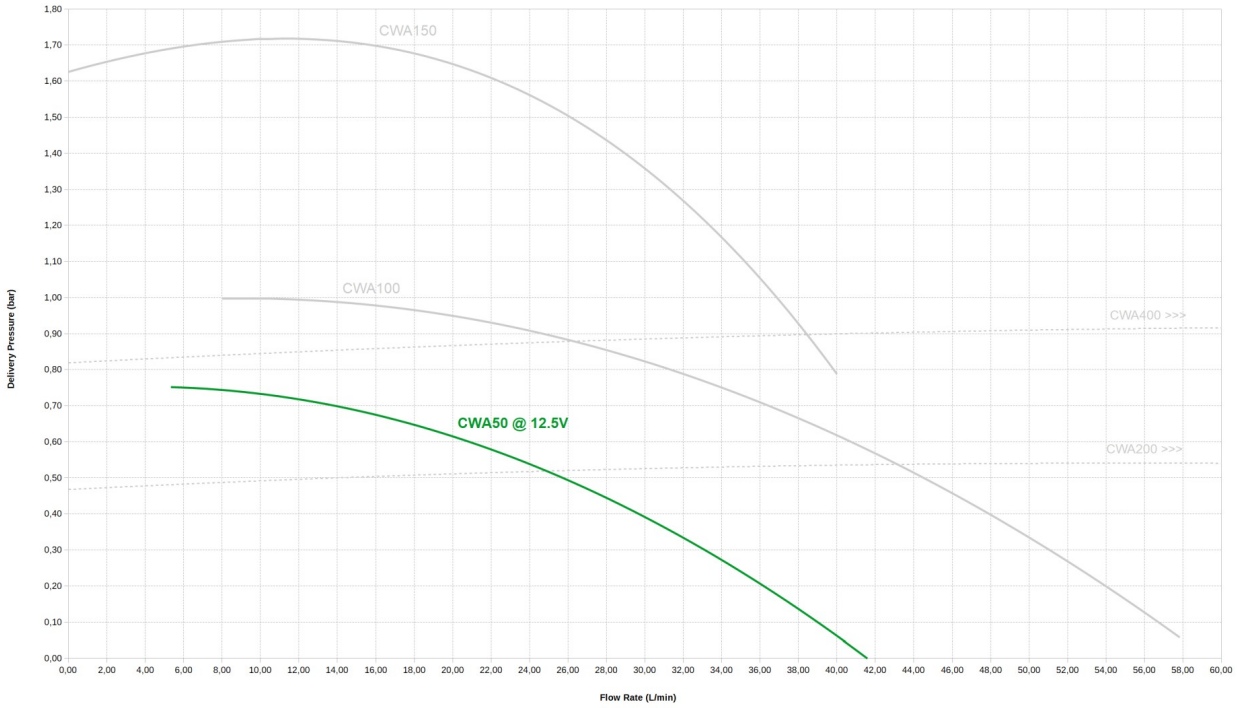
Know-how:
* Pump pressure is not the same as the system pressure.
Those pumps can of course be used in normal automotive cooling systems with system pressures in the range of 0.8 to 1.2 bar for instance.
The pump pressure or differential pressure expresses the ´resistance´ of which the pump has to work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


107,20
88,70
115°




20
∅20
86,70
128,20


∅16
∅22,40
20,50
55,80
96,50
∅74


CWA150
CWA100
CWA400 >>>
CWA50 @ 12.5V
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