

# GEAR PUMP: EXTREME 2000 ML/MIN – BLDC MOTOR



The flagship of our product line, the Extreme series is where it all started. It contains more bearings for higher load-carrying capacity, resulting in long life at high pressures. It can accommodate a wide variety of port locations (side, top, face) and sizes. An optional internal pressure relief valve provides additional overpressurization protection. The brushless DC motor includes current limiting and thermal overprotection, and its IP-55 rating means reliable operation in harsh environments at peak performance. **The Extreme series - Engineering Your Flow.**

- › Continuous Ink Jet Printing
- › Dialysis
- › Water treatment
- › Food & Beverage

## Benefits



**3D Mounting:** Our pumps are extremely versatile when it comes to mounting. The body is compact in size and the flexible inlet and outlet port locations simplifying the plumbing and conserving valuable space.



**Long Life:** DPP pumps are all characterized by their robustness and performance. Wear and tear is at its lowest, and their smart designs ensure a sustainable reduction of operating costs.



**100% Outgoing Test:** Before any pump leaves our factory, it is stringently and extensively tested in accordance with its specifications. Our customers receive detailed reports, saving them time and money.



**Chemically Resistant:** Our pumps are made from materials that are resistant to a wide range of aggressive chemicals. This means our pumps can also operate reliably and precisely in even the most environments.



**Low Pressure Pulsation:** Thanks to their smart drives and the innovative helical gear design our pumps ensure an extremely smooth fluid delivery with almost no pressure pulsation.



**No Shaft-Seals:** DPP gear pumps are hermetically sealed instead of using conventional shaft seals. This means low maintenance for you and your customers, a long service life and the highest degree of productivity.

## Specifications

### Performance

Max. continuous pressure:	5 bar
Max. intermittent pressure:	6 bar
Max. static Case pressure:	20 bar
Inlet:	Self-priming
Speed range:	300-4000 rpm
Fluid viscosity range:	0.3 to 1000 cps

### Electrical

Supply voltage:	24 vdc
Speed Control:	0-5 vdc
Tach. Output:	6V square wave, 2 pulses per revolution
Rotation:	Uni-directional
Max. current:	2 amps
Max. output power:	35 Watts
Current Overload Protection:	2 amps
4-conductor Teflon cable:	24 AWG
Color code:	Black = ground, Red = +24 vdc, Green = Tach. Output, White = 0-5 vdc speed control
Motor rating:	IP-55

### Temperature

Fluid temperature range:	-20 to +100°C
Ambient air temp. range:	0-60°C
Thermal protection:	Internal thermal sensor off at 90°C, resets at 80°C
Relative humidity range:	0-95% non-condensing

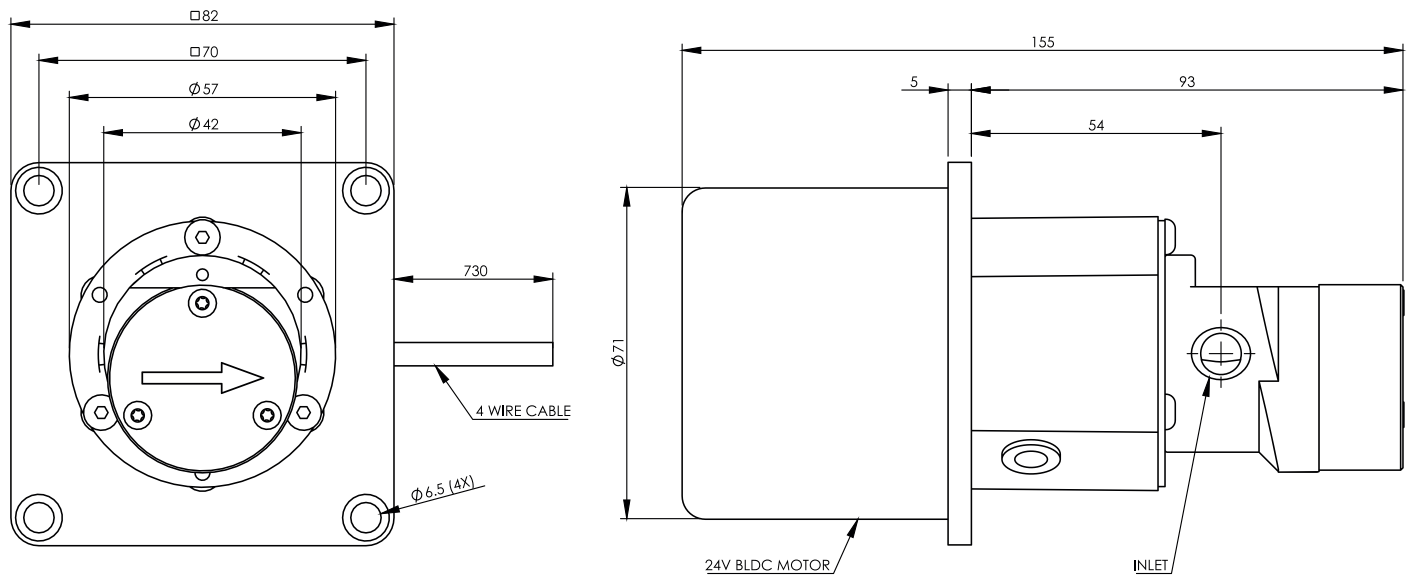
### Construction

Standard:	316L stainless steel, PEEK®, EPDM
Optional:	Alloy-C, PPS (gears), Teflon®, Silicone, Viton®, Kalrez®
Inlet/Outlet:	1/8"-NPT (standard)
Optional:	1/4"-NPT, G1/8, G1/4, exiting the side, top, or end of the pump
Internal Pressure Relief Valve:	Optional
Marking:	Permanent laser-mark identification for 100% traceability
Mass:	1.3 kg

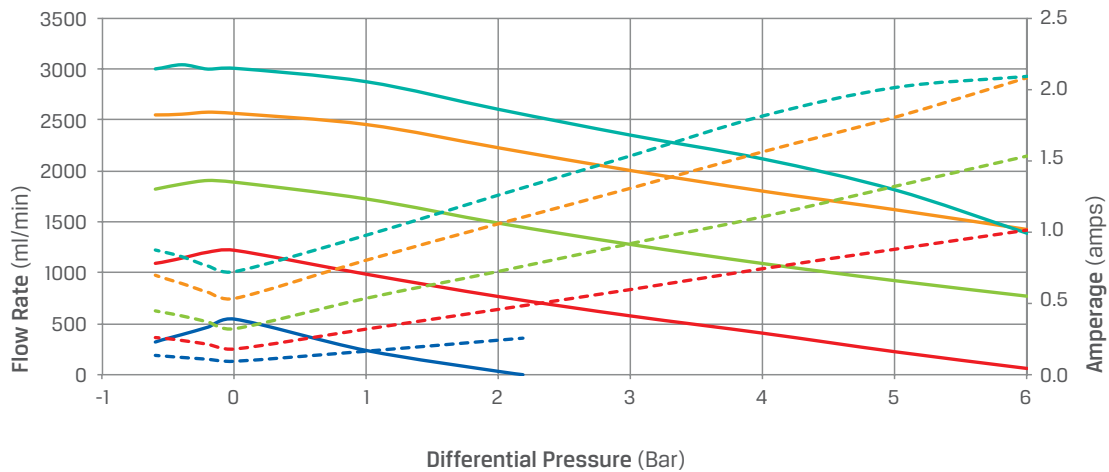
Performance values are limits and cannot all happen simultaneously. Please contact your sales engineer for further technical information and customized options.



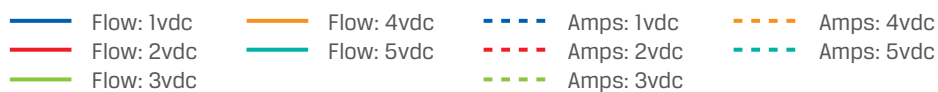
## Dimensional Outline Drawing (mm)



## Typical Performance Curve (Water at Room Temperature)



### Motor Control Voltage: Amperage (amps)



DPP is certified to medical standard ISO 9001 / ISO 13485 and operates a clean-room according to ISO Class 7. All pumps are customized; the information given represent one of the possibilities.

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