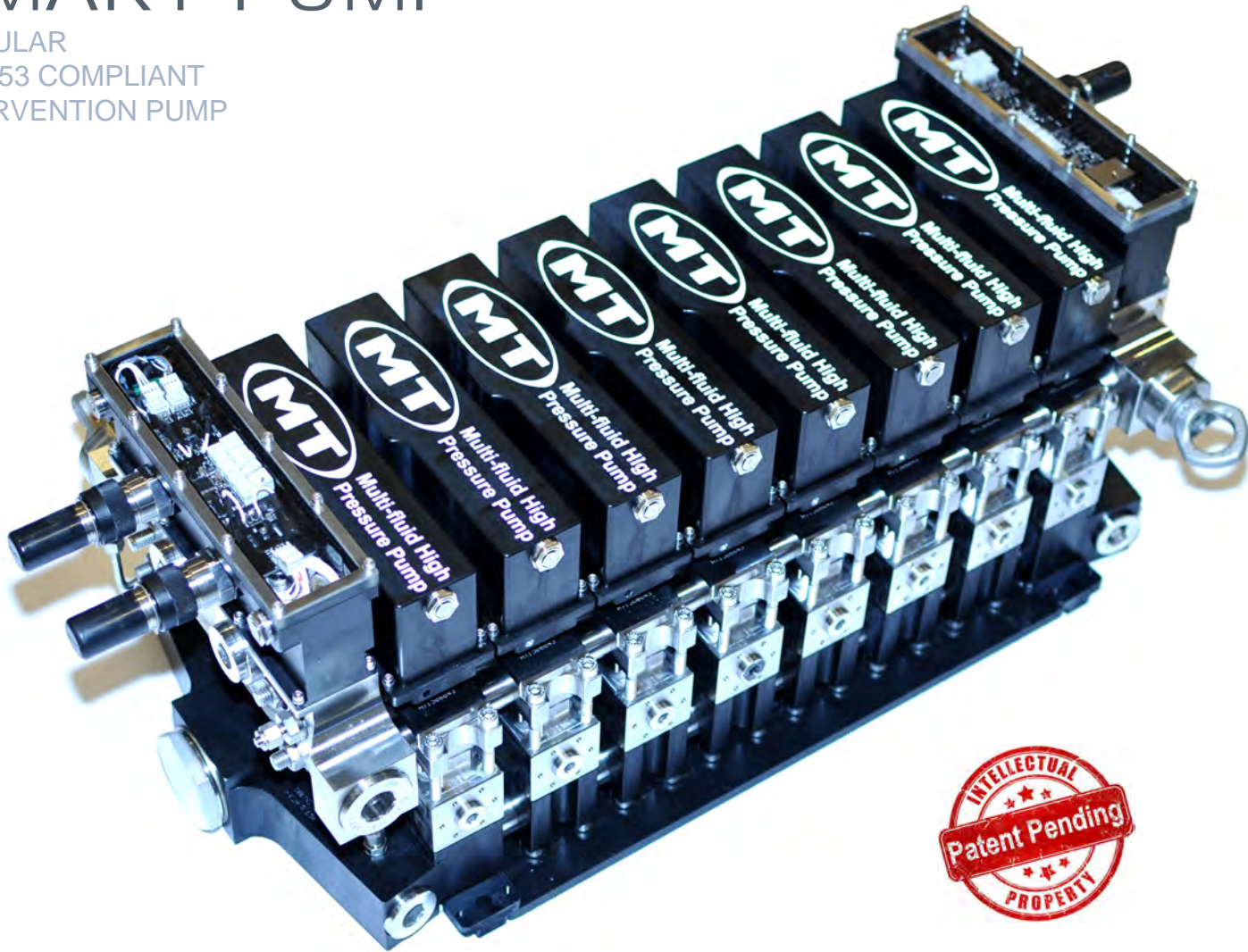


# MODULAR MULTIFLUID SMART PUMP

MODULAR  
API S53 COMPLIANT  
INTERVENTION PUMP



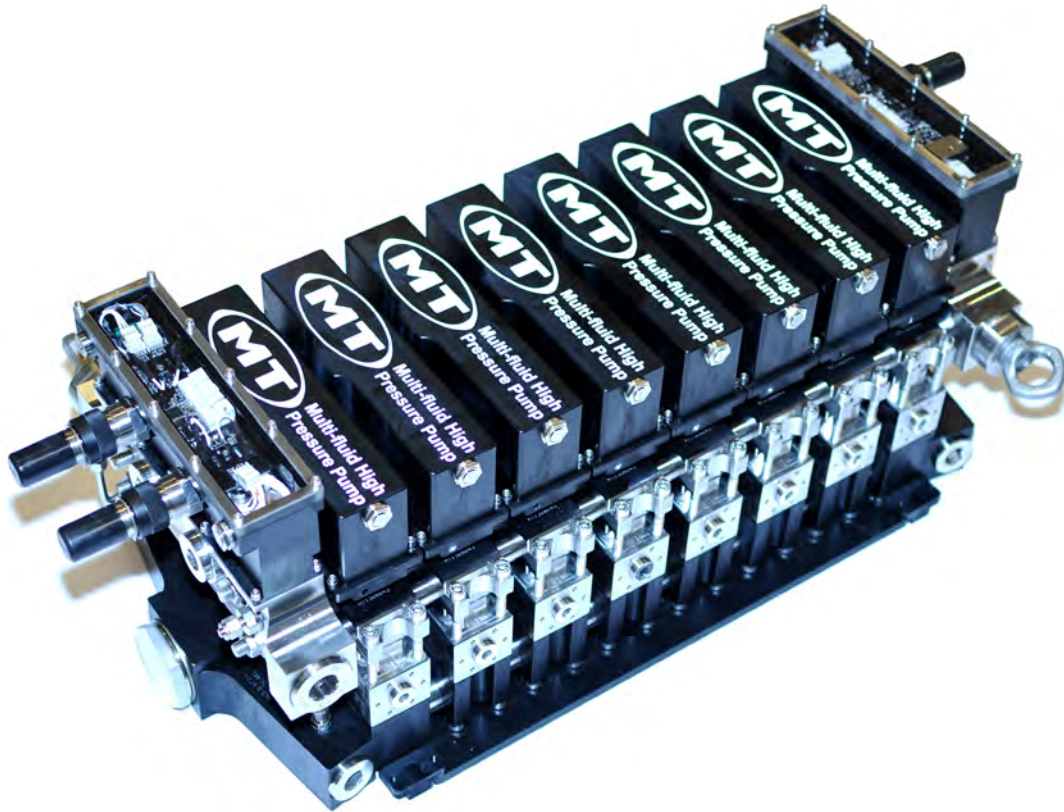
## FEATURES

- Cost Effective
- Remote Operation
- Modular Design
- Field Proven Technology
- Customized Configurations



# MODULAR MULTIFLUID SMART PUMP

MODULAR  
VALVEPACK  
SYSTEM



## Description

**To be able to meet the most demanding intervention requirements, Envirex Group and Marine Technologies developed the revolutionary Modular Multifluid Smart Pump (MMSP).**

The Multi Fluid High Pressure Pump are special designed and developed to allow full control of both pressure and flow on most types of fluids. Each pump module is an independent machine and the array is controlled and synchronized in software

The MMSP system is modular, and provides easy replacement, several setups and easy maintenance to maximize operational efficiency.

The unique design allows the system to be expanded with up to 12 modules, and two completely separated AUX circuits.

Topside controls utilize custom control software in combination with a portable laptop to present the graphical user interface. The MMSP is offered with numerous options where a typical configuration may consist of 4 x high flow modules and 4 x high pressure modules.

## Features

- 1 to 12 modules - expandable, flexible
- Compact and robust design
- Wide Range of fluid compatibility
- Rated to 4000MSW
- Auxiliary inputs
- Integrated comms link
- Service and user friendly
- Customized setup
- Ethernet communication

## Typical Operations

- BOP Shear Ram Actuation
- Intervention Works
- Subsea Control System
- Chemical Injection
- Subsea Tooling

# SPECIFICATIONS

## MULTIFLUID SMART PUMP

### General Technical Specifications

Type	Modular Multifluid Smart Pump		
Part Number	106779		
Body Material	AISI316L / Super Duplex / Titanium / Aluminum 6082		
Fluid	Input	Mineral Oil	
	Output	Mineral Oil	
		Water Based Glycol	
		Methanol	
		Acid *	
		Seawater (in emergency)	

\* Please contact us for more information regarding acid compatibility

Weight (in air / submerged) [Kg]	~160Kg / ~136Kg **
Dimensions (W x H x L) [mm]	405 x 329 x 755 **
Operating Temperature	-10°C/ + 60°C (14°F / 122°F)

\*\* Given weight and dimensions are applicable for 8 x Pump Module and 2 x Inlet Module configuration.

### Hydraulic

Max. Input Pressure	275 Bar (4.000 PSI)
Max. Output Pressure	345Bar (5.000 PSI)

### Electrical

Nominal Voltage	24 VDC
COMS	Ethernet
Connector	Burton 5506-1508-0004

Pin-out	J1- PWR & COMS	J2 - (Option 1)	J2 - (Option 2)
	Pin 01 – 0 VDC	Pin 01 – 0VDC	Pin 01 – 0VDC
	Pin 02 – 24 VDC	Pin 02 – 24 VDC	Pin 02 – 24 VDC
	Pin 03 – RS 485 +	Pin 03 – 4-20 mA	Pin 03 – DIG IN
	Pin 04 – RS 485 -	Pin 04 – NC	Pin 04 – DIG IN
	Pin 05 – TX+ ORG /WHT	Pin 05 – 0 VDC	Pin 05 – 0 VDC
	Pin 06 – TX- ORG	Pin 06 – 24 VDC	Pin 06 – 24 VDC
	Pin 07 – RX+ GRN/WHT	Pin 07 – 4-20mA	Pin 07 – DIG IN
	Pin 08 – RX- GRN	Pin 08 – NC	Pin 08 – DIG IN

### Pump Characteristics Examples

Input Pressure	Input Flow (L/Min)	Output Pressure	Output Flow (L/Min)
207 (3.000 PSI)	300	345 Bar (3.000 PSI)	148
207 (3.000 PSI)	250	345 Bar (3.000 PSI)	123
207 (3.000 PSI)	200	345 Bar (3.000 PSI)	98
207 (3.000 PSI)	150	345 Bar (3.000 PSI)	74

# ACCESSORIES

MODULAR  
MULTIFLUID  
SMART PUMP



Type	Compensator 1,2 Liter
Part Number	104529 (without level sensor) 107725 (with level sensor)
Body Material	POMC Black
Weight	~3,4Kg
Port Size	3/8" BSPP Female



Type	Subsea Gear Flowmeter
Body Material	AISI316L (Alu6082 Housing)
Flow Measurement Range	From 0 to 250 L/Min



Type	Subsea Pressure Sensor
Body Material	AISI316L
Pressure Measurement Range	From 0 to 2200Bar



Type	Pressure Safety Valve (PSV)
Part Number	101749
Body Material	AISI316L
Pressure Range	From 0 to 2200Bar



Type	iCsys Software Suite ®
Part Number	106388

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THE DETAILS**

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FOR  
PERFECTION**