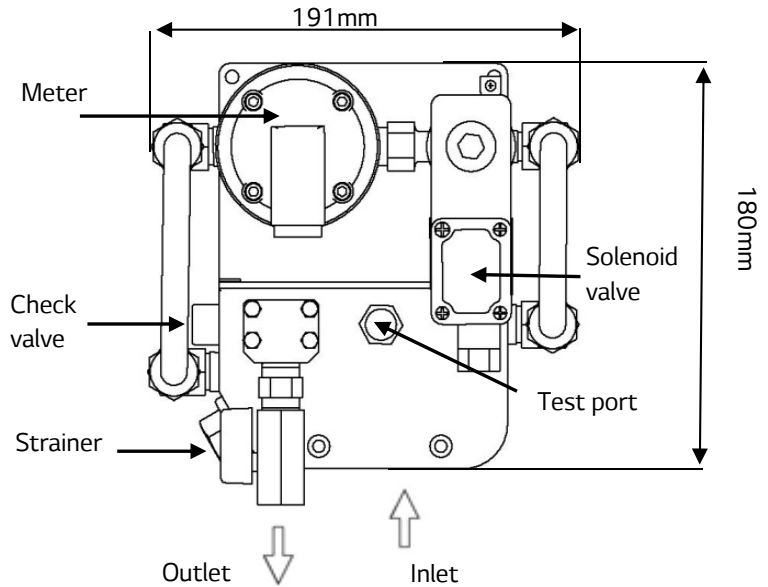
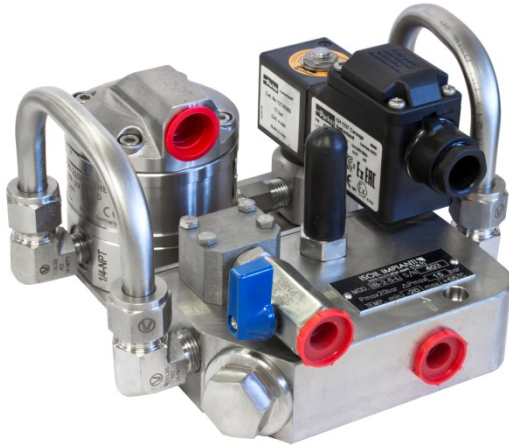




# INJECTION BLOCK

IB2

Data Sheet: *DS/AD/0003/EN Ed. 09-2017*

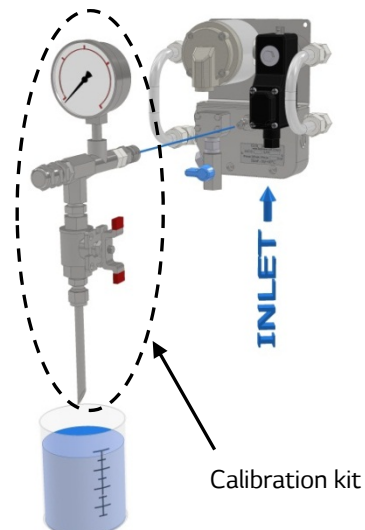


## Injection block 2 - IB2

The IB2 is a compact metering group that carries out precise additive injection. The all stainless steel leak proof block includes:

- precision oval gear flow meter,
- solenoid valve,
- fine-mesh strainer,
- flow regulation needle valve,
- outlet check valve,
- quick-coupling test port for calibration kit..

An optional calibration kit is available for in-field calibration.



## Integration with electronic controller

The IB2 is a stand-alone device that can be coupled with any flow computer with additive injection management capabilities.

The IB2 can be sold along with ISOIL injection controllers Fleximix and VEGA II.

## Rates of additive injection

Considering a typical loading flow rate of 2200 L/min:

- the Standard IB2 size allows for additive injections up to 3000 ppm with 5÷500 cc per shot.
- The Low-flow IB2 allows for additive injections up to 500 ppm with 3÷50 cc per shot.

www.isoilmeter.com

## Pressure Drop versus Flow Rate

It is necessary to have minimum 2 bar of overpressure at the injection point with respect to the main line pressure.

### Example:

Pressure in the main line = 3 bar.

Required pressure at injection point:

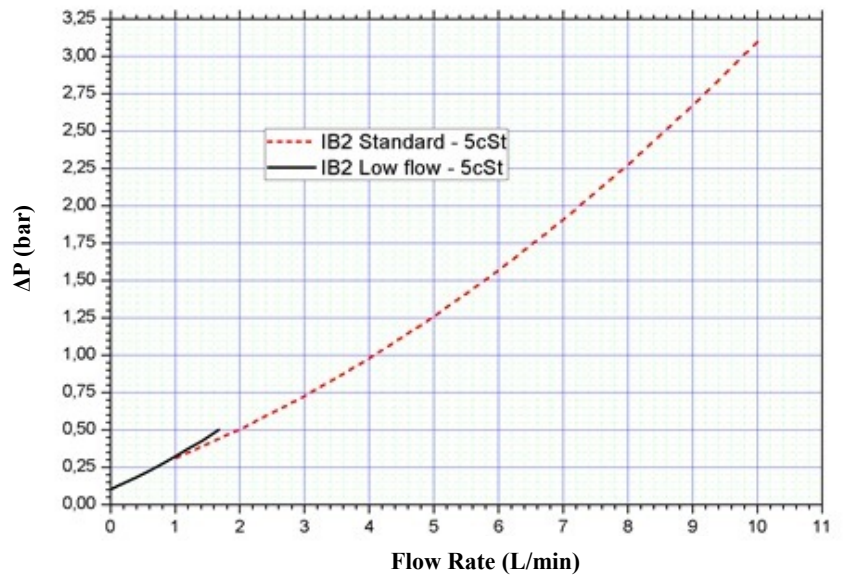
= 3 + 2 bar = 5 bar.

Flow rate of IB2 mod. Standard = 9,17 L/min.

Pressure drop across IB2 = 3 bar.

Required minimum pressure of pump:

= 5 + 3 bar = 8 bar.



## Technical characteristics

<b>Materials</b>		
Meter, Strainer, Block:	316 Stainless Steel	
Solenoid Valve:	303 Stainless Steel	
Gaskets:	PTFE / FFKM	
<b>Environment</b>		
Temperature range:	-20°C ÷ +55°C	
Explosion Protection:	Flow meter: II 2 G Ex d IIC T6 Gb – IP67 Solenoid valve II 2 G-Ex db mb IIC T4 – IP67	
<b>Metering</b>		
Max. Working Pressure:	20 bar	
Max. Differential Pressure across IB2:	12 bar (230 Vac), 10 bar (24 Vdc)	
Flow Rate mod. Standard:	9,17 L/min (6,87 L/min pulsating flow)	
Flow Rate mod. Low Flow:	1,67 L/min (1,25 L/min pulsating flow)	
Power Supply:	230 Vac, 24 Vdc	
<b>Performance</b>		
Precision @3cP:	±0,5%	
Repeatability:	0,25%	
<b>Mechanical/Electrical characteristics</b>		
Pulse emitter sensor:	Hall effect	
Output:	Open collector	
Strainer:	200 mesh	
Quick coupling test port:	1/4" Male	
Process connections:	3/8" NPT Female	
Weight:	6,5 Kg	
<b>Options:</b>		
Calibration kit (KT IB-01):	Pressure gauge, isolation valve, pressure relief valve, 1/4" female quick coupling	
<b>Ordering Code</b>		
IB2	-	
	<b>Power Supply</b>	
	5	- 230 Vac
	7	- 24 Vdc
	<b>Max Flow Rate</b>	
	S	9,17 L/min
L	1,67 L/min	