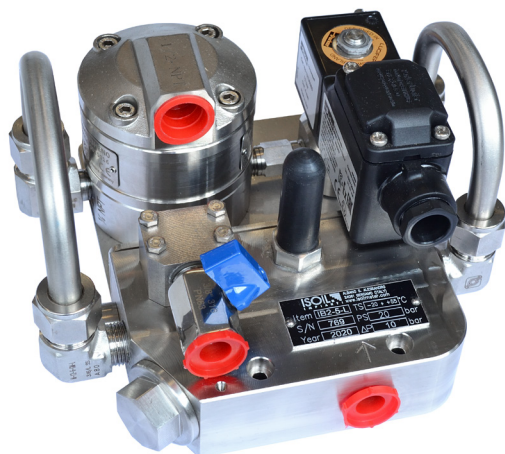




INJECTION BLOCK

IB2

Data Sheet: DS/AD/0003/EN Ed.04/2021

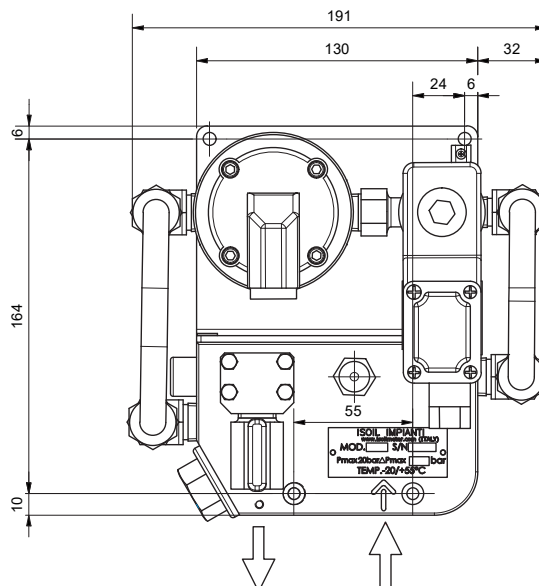
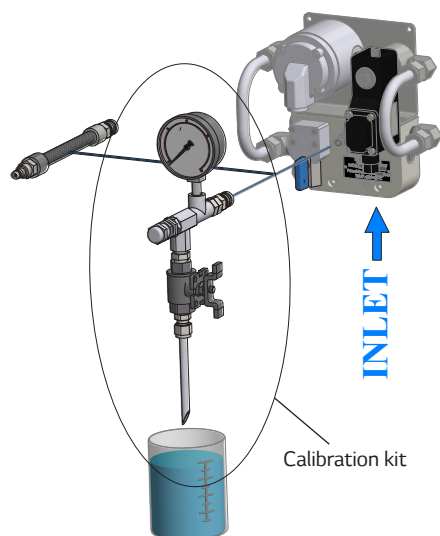


The IB2 is a compact metering group that carries out precise additive injection.

The 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 on-site 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.

Additive injection rates

Considering a typical loading flow rate of 2.200 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.

Pressure drop/ 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:

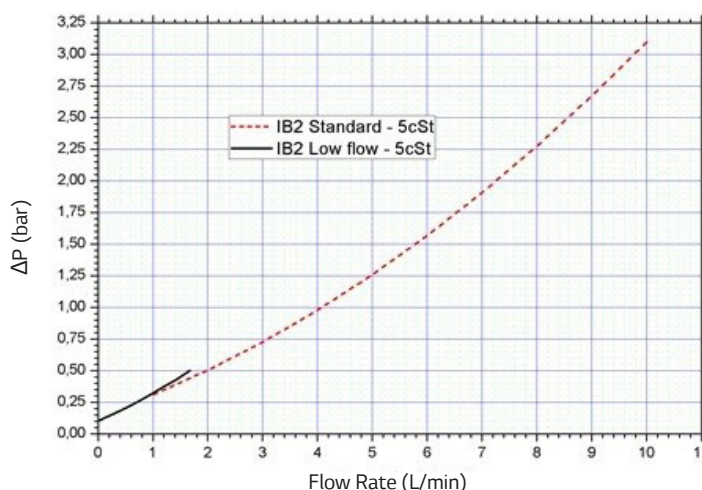
= 3 + 2 bar = 5 bar.

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

Pressure drop across IB2 = 3 bar.

Minimum required pressure of the pump:

= 5 + 3 bar = 8 bar.



Technical features

Materials	
Meter, strainer, block:	Stainless Steel 316 L
Solenoid valve:	Stainless Steel 303
Gaskets:	PTFE / FFKM
Ambient	
Temperature range:	-20°C ÷ +55°C
Explosion Protection:	Flow Meter: II 2 G Ex db IIC T4...T6 Gb - IP67 Solenoid valve: II 2 G Ex db mb IIC T4 - IP67
Metering	
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 with pulsating flow)
Flow Rate mod. Low Flow:	1,67 L/min (1,25 L/min with pulsating flow)
Power Supply:	230 Vac, 24 Vdc
Performance	
Precision @3cP:	±0,5%
Repeatability:	0,25%
Mechanical/ Electrical Characteristics	
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
Opzioni	
Calibration kit (KT IB-01):	Pressure gauge, isolation valve, pressure relief valve, 1/4" female quick coupling
Product	
IB2	-
Power Supply	
5	- 230 Vac
7	- 24 Vdc
Max Flow Rate	
S	9,17 L/min
L	1,67 L/min