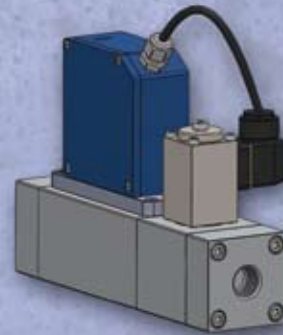


FCTechnik

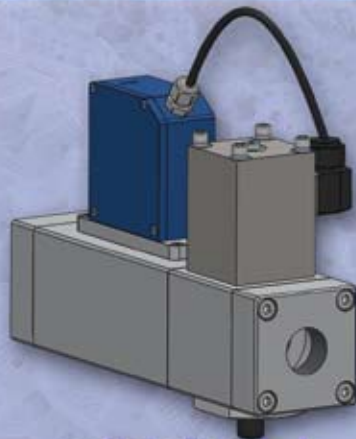
MASS FLOW CONTROLLER FLOX[ON] B S J
PRESSURE CONTROLLER FLOX[ON] S



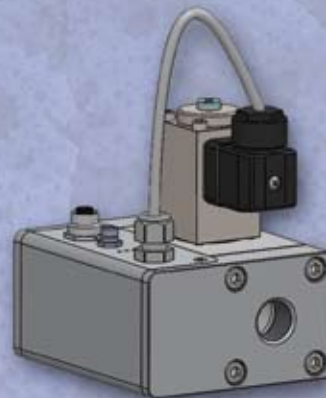
flox[on] B



flox[on] S



flox[on] J



flox[on] S Pressure Control

FLOX[ON] B



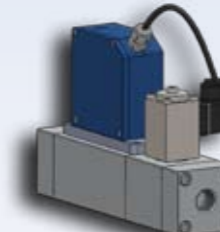
PRODUCT FEATURES		FLOX[ON] B		
		ECONOMY	EXTENDED	STAINLESS STEEL
Maximum flow	Nlmin ⁻¹	200	250	250
Minimum flow	Nlmin ⁻¹	0.5	0.5	0.5
Maximum operating pressure	bar	16	16	16
Regulation ratio		1 : 30	1 : 50	1 : 50
Device Accuracy		1% Full Scale	1% Full Scale	1% Full Scale
Step response time (10% - 90%)	s	1.5 or less	1.5 or less	1.5 or less
Operating temperature	°C	from -10 to +60	from -10 to +60	from -10 to +60

GASES			
Calibration media (see also chapter calibration)	standard: comp. air, *	standard: comp. air, *	standard: comp. air, *
Process media (gas)	comp. air, N ₂ , Ar, CO ₂	comp. air, N ₂ , Ar, CO ₂ , H ₂ , CH ₄ , O ₂ , **	comp. air, N ₂ , Ar, CO ₂ , H ₂ , CH ₄ , O ₂ , **

EQUIPMENT		FLOX[ON] B		
		ECONOMY	EXTENDED	STAINLESS STEEL
Connection M8 power supply	VDC	24 ± 15 %	24 ± 15 %	24 ± 15 %
Connection M12 analog		set and real value	set and real value	set and real value
LED display operating mode		3, two colours	3, two colours	3, two colours
Micro USB Port		•	•	•
Software "Regulation Tuning"		•	•	•

MATERIALS			
Housing	Aluminium and Brass	Aluminium and Brass	steel
Valveparts	Brass	Brass	steel
Inlet / Outlet Port	FBSPP 1/2"	FBSPP 1/2"	FBSPP 1/2", 3/8", 1/4"
Sealing	NBR, FPM	NBR, FPM	NBR, FPM, other
Protection	IP54	IP65	IP65

FLOX[ON] S



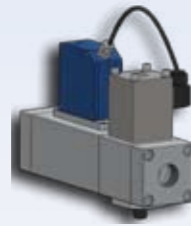
PRODUCT FEATURES		FLOX[ON] S		
		ECONOMY	EXTENDED	STAINLESS STEEL
Maximum flow	Nlmin ⁻¹	1200	1200	1200
Minimum flow	Nlmin ⁻¹	0.5	0.5	0.5
Maximum operating pressure	bar	16	16	16
Regulation ratio		1 : 50	1 : 100	1 : 100
Device Accuracy		1% Full Scale	1% Full Scale	1% Full Scale
Step response time (10% - 90%)	s	3 or less	3 or less	3 or less
Operating temperature	°C	from -10 to +60	from -10 to +60	from -10 to +60

GASES			
Calibration media (see also chapter calibration)	standard: comp. air, *	standard: comp. air, *	standard: comp. air, *
Process media (gas)	comp. air, N ₂ , Ar, CO ₂	comp. air, N ₂ , Ar, CO ₂ , H ₂ , CH ₄ , O ₂ , **	comp. air, N ₂ , Ar, CO ₂ , H ₂ , CH ₄ , O ₂ , **

EQUIPMENT		FLOX[ON] S		
		ECONOMY	EXTENDED	STAINLESS STEEL
Connection M8 power supply	VDC	24 ± 15 %	24 ± 15 %	24 ± 15 %
Connection M12 analog		set and real value	set and real value	set and real value
LED display operating mode		3, two colours	3, two colours	3, two colours
Micro USB Port		•	•	•
Software "Regulation Tuning"		•	•	•

MATERIALS			
Housing	Aluminium and Brass	Aluminium and Brass	steel
Valveparts	Brass	Brass	steel
Inlet / Outlet Port	FBSPP 1/2"	FBSPP 1/2"	FBSPP 1/2", 3/8", 1/4"
Sealing	NBR, FPM	NBR, FPM	NBR, FPM, other
Protection	IP54	IP65	IP65

FLOX[ON] J



PRODUCT FEATURES		FLOX[ON] J
Maximum flow	Nlmin ⁻¹	5000
Minimum flow	Nlmin ⁻¹	30
Maximum operating pressure		16
Regulation ratio		1 : 50/100
Device Accuracy		1% Full Scale
Step response time (10% - 90%)	s	7 or less
Operating temperature	°C	from -10 to +60

GASES		
Calibration media		standard: comp. air
Process media (gas)		comp. air, N ₂ , Ar, CO ₂

EQUIPMENT		
Connection M8 power supply	Nlmin ⁻¹	24 ± 15 %
Connection M12 analog	Nlmin ⁻¹	set and real value
LED display operating mode		1, two colours
Micro USB Port		-
Software "Regulation Tuning"		-

MATERIALS		
Housing		Aluminium and Brass
Valveparts		Brass
Inlet / Outlet Port		thread 1" BSP
Sealing		NBR, FPM
Protection		IP54

CALIBRATION

GAS		CORRECTION FACTOR
Hydrogen*	H ₂	0,7
Argon	Ar	0,95
Nitrogen	N ₂	1,0
Oxygen	O ₂	1,0
Methane	CH ₄	1,1
Carbon dioxide	CO ₂	1,35

* For applications using hydrogen gas, we recommend that the **flox[on]** can be calibrated directly with hydrogen by FC Technik

Before delivery, the measuring cell in every **flox[on]** is calibrated with atmospheric air. There are correction factors for applications using other gases. In individual cases, if desired by the client, the calibration can be made directly with the specific gas intended for use.

For all other questions about calibration, please contact our service center.

FLOX[ON] S PRESSURE CONTROL



PRODUCT FEATURES		FLOX[ON] S PRESSURE CONTROL	
		ECONOMY	STAINLESS STEEL
Maximum controlled Pressure	bar	18	18
Minimum controlled Pressure	bar	0.5	0.5
Maximum operating pressure	bar	20	20
Maximum Flow (at 18 bar)	Nl/min	2000	2000
Device Accuracy		1% Full Scale	1% Full Scale
Step response time (10% - 90%)	s	1 or less	1 or less
Operating temperature	°C	from -10 to +60	from -10 to +60

GASES			
Calibration media		comp. air 20 bar	comp. air 20 bar
Process media (gas)		comp. air, N ₂ , Ar, CO ₂	comp. air, N ₂ , Ar, CO ₂ , H ₂ , CH ₄ , O ₂ **

EQUIPMENT			
Connection M8 power supply	Nlmin ⁻¹	24 ± 15 %	24 ± 15 %
Connection M12 analog	Nlmin ⁻¹	set and real value	set and real value
LED display operating mode		3, two colours	3, two colours
Micro USB Port		no	no
Software "Regulation Tuning"		no	no

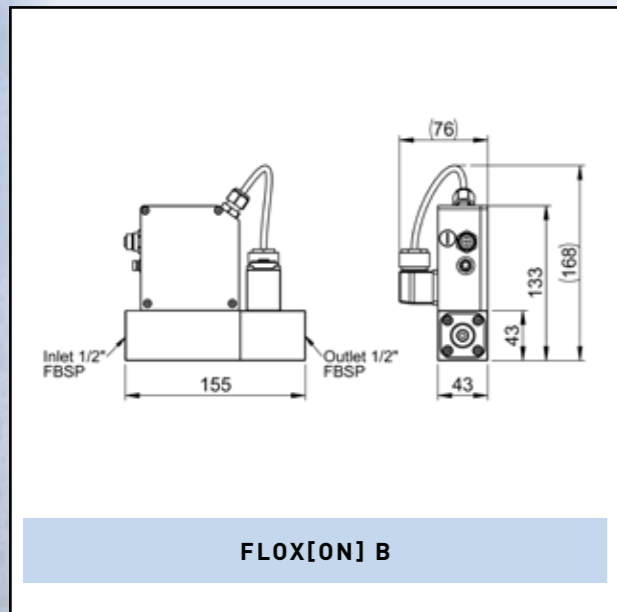
MATERIALS			
Housing		Aluminium and Brass	steel
Valveparts		Brass	steel X2CrNi18-9, 14307
Inlet / Outlet Port		FBSPP 1/2"	FBSPP 1/2", 3/8", 1/4"
Sealing		NBR, FPM	NBR, FPM, other
Protection		IP54	IP54

* In individual cases, if desired by the customer, the calibration can be made directly with the specific gas intended for use.

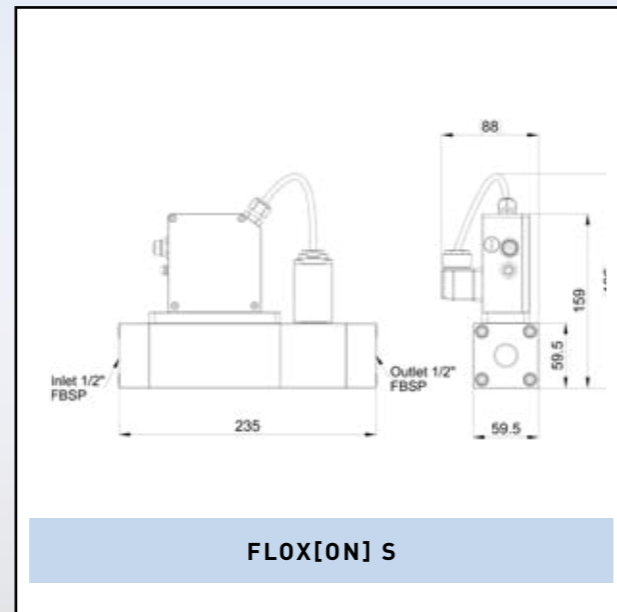
** In other cases a compatibility check is required.

The **flox[on]** PS-S pressure controller controls the outlet pressure and compensates fluctuations of the inlet pressure. The set value is the target pressure and the real value the actual pressure at the outlet of the controller.

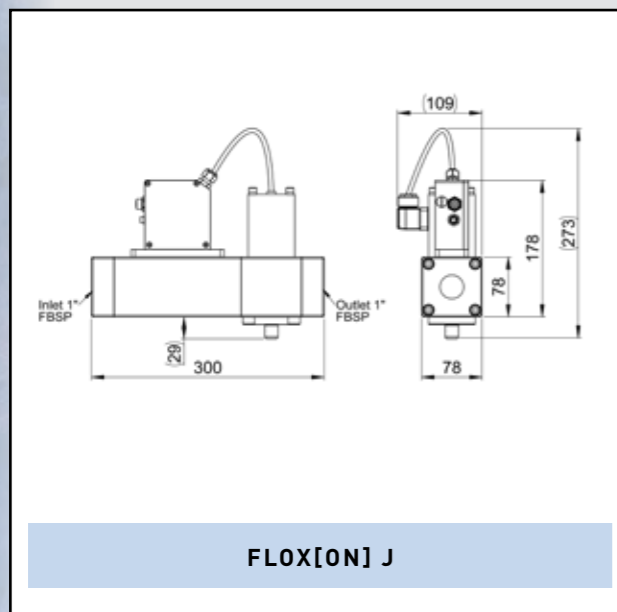
DIMENSIONS



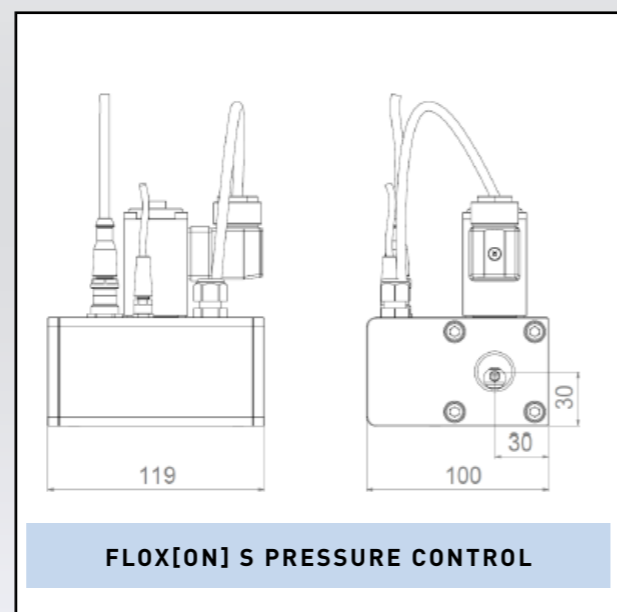
FLOX[ON] B



FLOX[ON] S

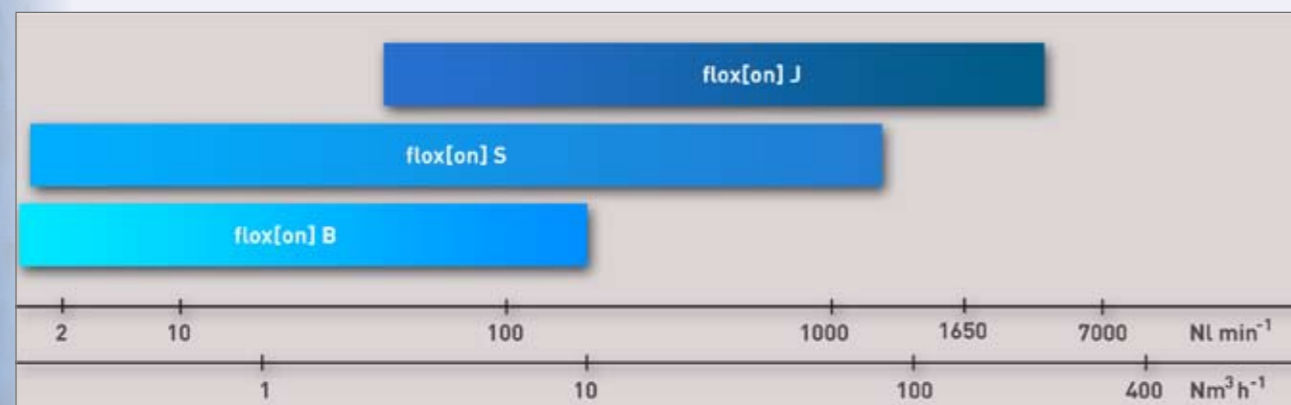


FLOX[ON] J



FLOX[ON] S PRESSURE CONTROL

GAS FLOW OF THE FLOX[ON] SERIES



USP PORT AND DATA EXCHANGE

The software for flox[on] B can be downloaded. It requires Windows. The software enables to operate the flox[on] B without any other process control.

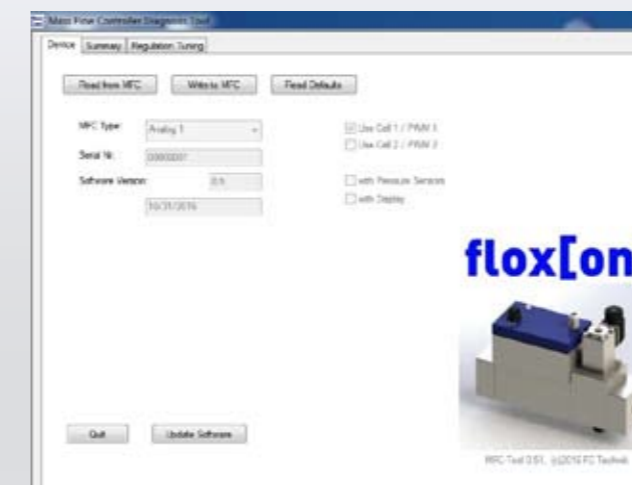
The software allows to:

- to get all information about the device,
- to see and to manipulate the calibration data,
- to have a look at the actual operation and to overwrite the set point.

Though the measuring cell does not require a recalibration for the rest of its lifetime it might be possible in very special processes to manipulate the calibration (here done in changing three calibration points, that are green marked).

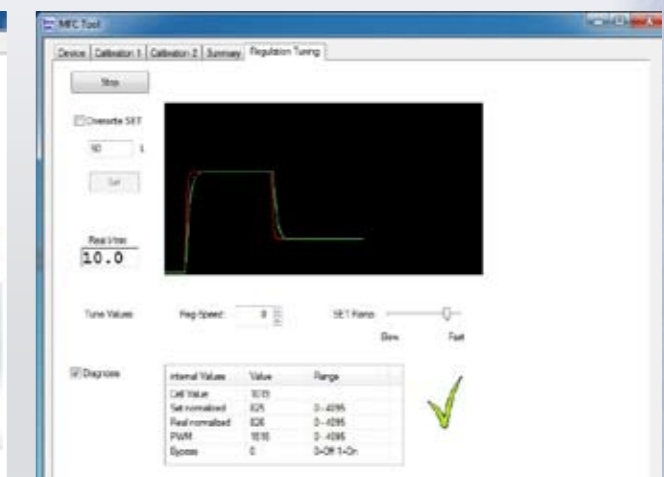
Before using this menu, it is recommended to discuss it with FC Technik.

DEVICE



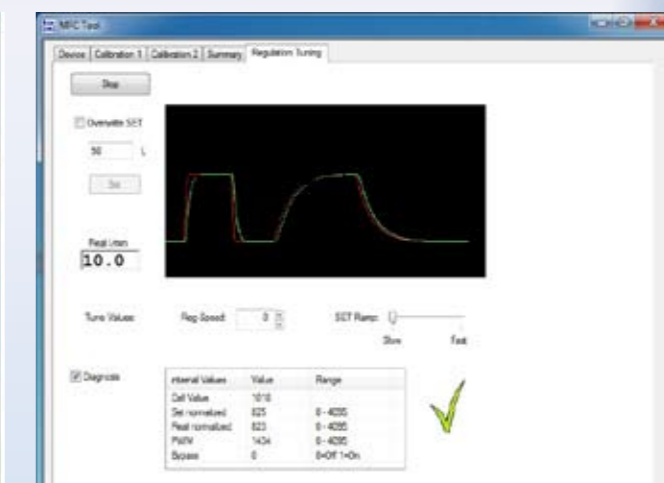
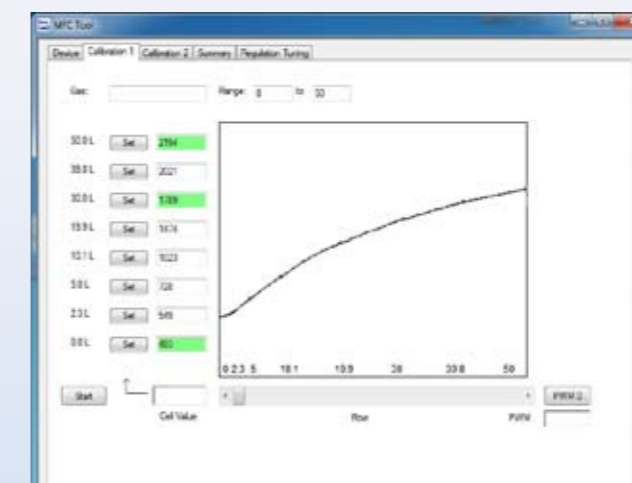
The menu device shows all relevant information about the flox[on] that is in use.

REGULATION TUNING



The green line shows the set point, the red line the running point in real time. It is possible to overwrite the set point at every time. In this case it had been done, changing from 50 to 10 lmin⁻¹ (e.g.). SET Ramp. can be positioned to fast. or slow.

CALIBRATION



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