



EMITTER
ELECTRONICS
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FOAMJET XXXT SERIES

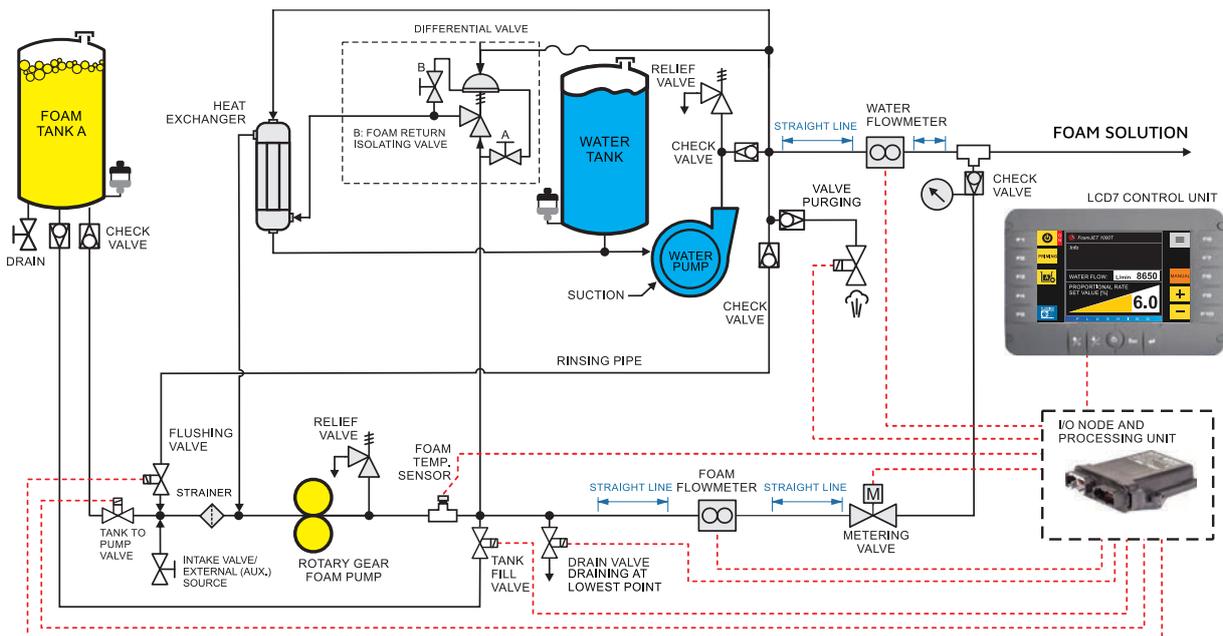
DIGITAL BP FOAM PROPORTIONING SYSTEM



Features and Benefits

- 1 Automatic BP foam dosing system in the range of 1 % to 8 %
- 1 Precise control with steps of 0.1 %
- 1 Wide range of system capacity, up to 1800 L/min
- 1 High Performance, Self-priming Rotary Gear Foam Pump with Timing Gear
- 1 The max. dynamic viscosity of foam concentrates 5300 cP
- 1 Magnetic-inductive flow meter for long-lasting low-maintenance operation
- 1 Manual or automatic operation mode
- 1 Intensive bright LCD for easy readability of process data

FoamJet FJ xxxT series is a digitally controlled direct injection balance pressure (BP) foam proportioning system used to maintain selected constant foam-water proportion regardless of water flow and pressure fluctuations. The system accurately delivers foam concentrate from 1 % to 8 % through the flow meter, el. metering valve and check valve, directly into the water discharge stream.



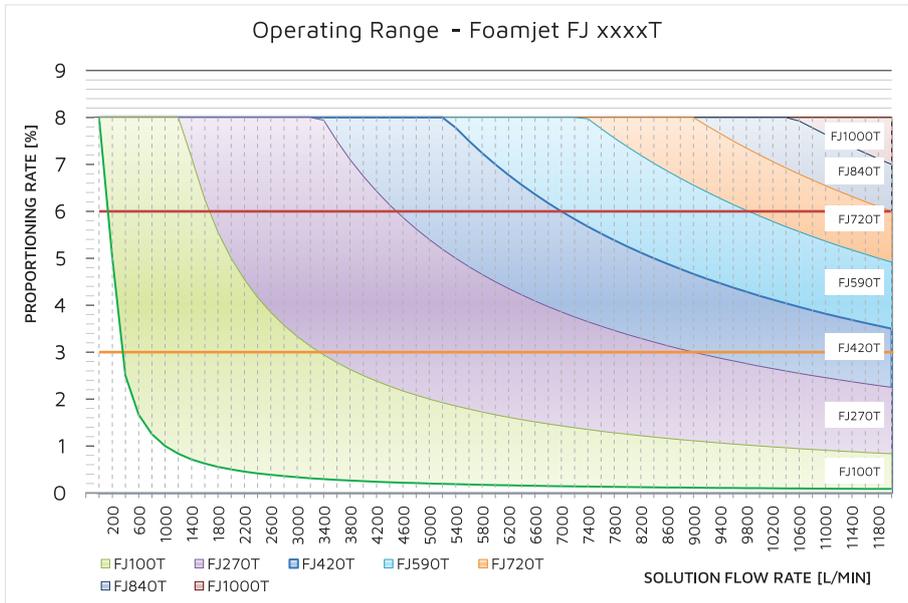
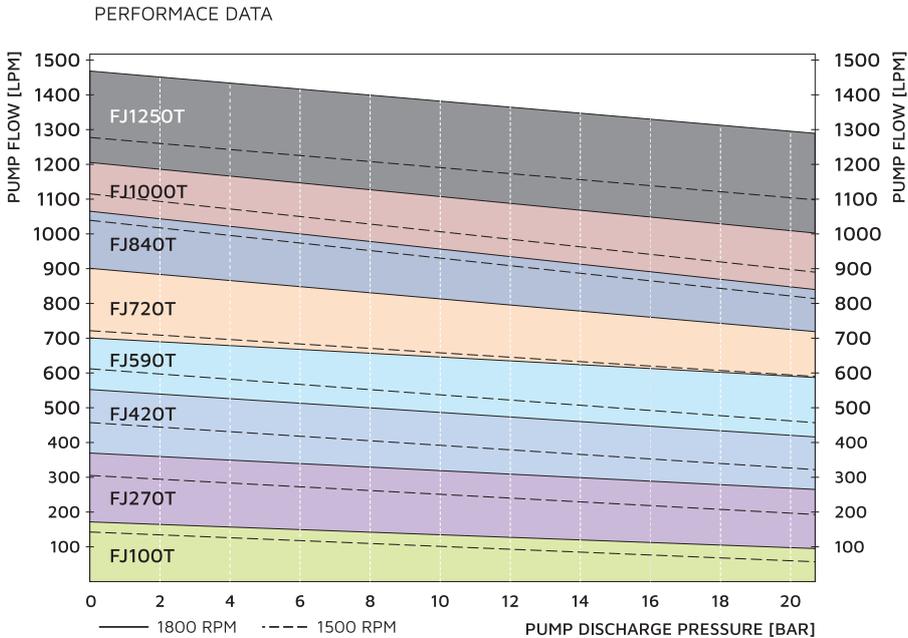
The system uses a High-Performance Rotary Gear Foam Pump with brass housing, bronze alloy rotors, oversized roller bearings - sealed for life, timing gear which allows dry-running without damage (no rotor contacts) and other high-quality industrial components. The pump is self-priming and can pump water or different viscosities of Foam. The pump can be Hydraulic or PTO driven.

A special el. metering valve precisely adjusts the amount of foam concentrate injected. All excess foam concentrate is returned back to the foam tank via the differential relief valve using a closed loop system. The heat exchanger alleviates the heat build-up while circulating foam concentrate around the foam pump from discharge back to suction. Using a heat exchanger eliminates the possibility of aerating of the foam that returned to the on-board foam tank, and allows usage of foam concentrates from an external source in the event when the on-board tank is depleted, or a dis-similar foam concentrate is required.

The unit standardly uses a large 7" TFT LCD unit for easy overview and control over all functions of the system.

FoamJet xxxxT series can be used as a stand-alone system or as a part of the MMX system connected via CAN bus to the other MMX devices. Several remote LCD display control units can be connected to control the foam proportioning on different locations e.g., in the driver's cabin.

The maximum foam concentrate delivery in L/min varies by the pump and configuration selected with models available ranging from a max. of 100 L/min up to max. 1800 L/min.

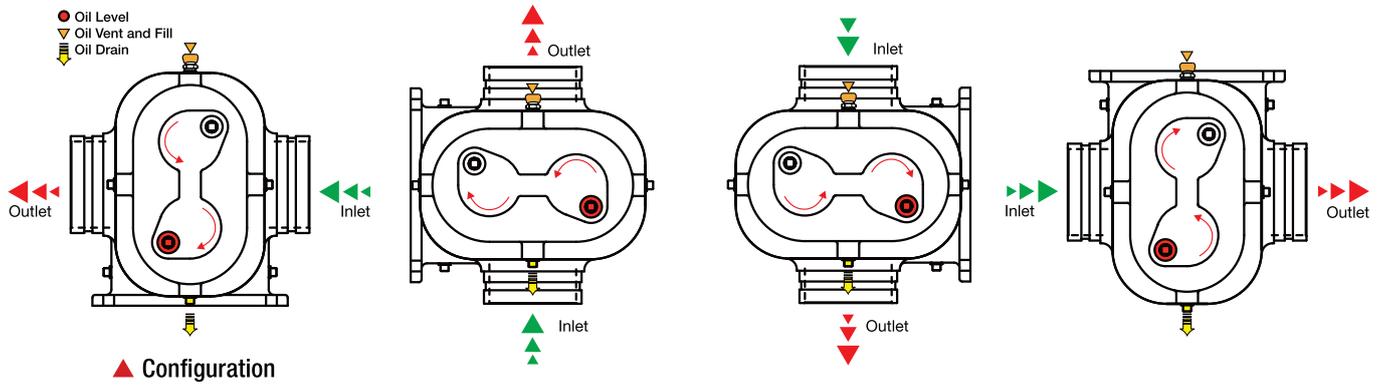


FJ delivering range at 1800 RPM

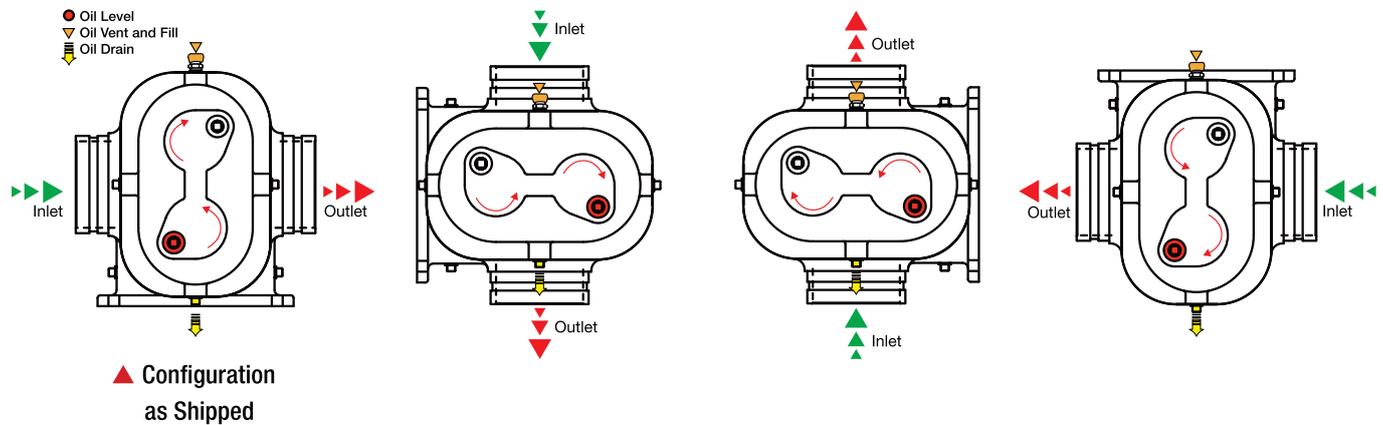
FJ100T		20-100 LPM
FJ270T		20-270 LPM
FJ420T		30-420 LPM
FJ590T		30-590 LPM
FJ720T		50-590 LPM
FJ840T		50-840 LPM
FJ1000T		100-1000 LPM
FJ1250T		200-1250 LPM

Foam pump can be mounted in any of the positions shown

Standard Flow Direction



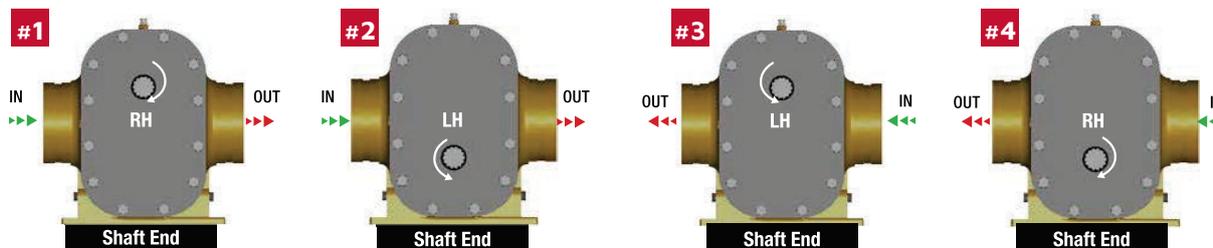
Reverse Flow Direction



Position and rotation direction

There are four configurations that can be selected before ordering the system

No.	Position	Rotation direction
#1	Top (Upper) Shaft Position	Right Hand (Clockwise) Rotation
#2	Bottom (Lower) Shaft Position	Left Hand (Counter Clockwise) Rotation
#3	Top (Upper) Shaft Position	Left Hand (Counter Clockwise) Rotation
#4	Bottom (Lower) Shaft Position	Right Hand (Clockwise) Rotation



Specifications

POWER	
Supply Voltage	8-32 V DC for electronic components
Current	max. 5A @ 24 V - controller
Electrical Protection	overvoltage, transients, reverse polarity, load dump (not valid for embedded version)
HMI – CONTROL PANEL	
LCD type	LCD TFT 7", sunlight readable, anti-reflective glass, 10+5 soft keys
ENVIRONMENT	
Temperature Range for electronic parts	operating from -40°C to +70°C storage from -40 to +70°C
IP Class (IEC529)	MMXEC1 controller: P67 MMXLCD7: IP65 MAGFLOW: IP65
EMC	designed to EN 61000-6-2, noise immunity designed to EN 61000-6-4, radiation immunity

FOAM PUMP	
Type	Rotary Gear pump with Timing gears and Victaulic connections, self-priming with Victaulic connections, eight different pump models
Material	Brass housing with bronze alloy rotors, stainless steel shafts, oversized roller bearings, silicon carbide mechanical seals
Pressure	20.7 bar max.
RPM	1800 max.
Mounting Orientation	Any orientation
Max viscosity of the agent	dynamic viscosity of foam concentrate is 5300 cP what gives for foam concentrate density of 1.4 kg/m ³ the kinematic viscosity of 3780 cS
Flange, pump weight	
FJ 100T	1.5" VIC, 27 kg
FJ 270T	2" VIC, 30 kg
FJ 420T	2" VIC, 62 kg
FJ 590T	3" VIC, 69, kg
FJ 720T	3" VIC, 79 kg
FJ 1000T	4" VIC, 82 Kg
FJ 1250T	4" VIC, 95 Kg
FJ 1800T	5" VIC, 195 Kg

Product Code

Use characters in bold to create order code

Ordering code example:

F	J	0	7	2	0	T	-	1	E	F	2	5
						A				2	0	0

FJ TYPE 100, 270, 420, 590, 720, 1000, 1250, 1800 LPM, (PTO OR HYDRAULIC DRIVEN VESRSION)	GEAR PUMP TYPE T: TITAN A: HD/AP
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1: ONE PRODUCT 2: TWO PRODUCTS	E: EXTERNAL SUCCION	F: FILL FUNCTION	WATER FLOW METER DIMENSION: 20: DN50 (2.0") 25: DN65 (2.5") 30: DN80 (3.0") 40: DN100 (4.0") 60: DN150 (6.0") 80: DN200 (8.0")
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