



LMSPFA Series

Pelton Wheel flowmeter with 316 stainless steel body, providing a pulse output.

Model Type	Flow Rate Range	Pressure Drop
LMSPFA.003* **	0.004 to 0.060 l/min	0.18 bar @ 0.03 l/min; 0.7 bar @ 0.06 l/min
LMSPFA.005**	0.006 to 0.100 l/min	0.18 bar @ 0.05 l/min; 0.7 bar @ 0.10 l/min
LMSPFA.01	0.01 to 0.25 l/min	0.33 bar @ 0.125 l/min; 1.3 bar @ 0.25 l/min
LMSPFA.05	0.02 to 1.3 l/min	0.18 bar @ 0.65 l/min; 0.74 bar @ 1.3 l/min
LMSPFA.24	0.03 to 4.3 l/min	0.3 bar @ 2 l/min; 1.2 bar @ 4.3 l/min
LMSPFA.45	0.04 to 6.3 l/min	0.23 bar @ 3 l/min; 1.3 bar @ 6.3 l/min
LMSPFA.48	0.06 to 8 l/min	0.30 bar @ 4 l/min; 1.2 bar @ 8 l/min
LMSPFA.90	0.08 to 15 l/min	0.25 bar @ 9 l/min; 0.7 bar @ 15 l/min
LMSPFA.220	0.1 to 28 l/min	0.24 bar @ 10 l/min; 1.8 bar @ 28 l/min

*Lower flows on request **non-standard

Common Features:

Pressure Rating	40 bar	
Temperature Rating	-50°C to 70° C	
Viscosity Range	Up to 10 cPs; ring factory if higher	
Accuracy	±2% of actual reading for the top 90% of range. ±0.5% FSD for the bottom 10% of range. [003 and 005 linearisation required]	
Repeatability	±0.2% reading over top 90% of range	
Pipe Size	1/4" BSP or NPT male (Specify at time of order, BSP normally in stock)	
Weight	1.1 kg	
Body and Internals	316SS with PFA rotor and sapphire/sapphire bearings, sealed ferrites on rotor	
Seal	FPM 'O' ring (subject to chemical compatibility).	
External materials of sensing electronics	316SS and anodised aluminium	
Output & Power	NPN open collector with 4-way M12 sensor connector [IEC-61076-2-101] – e.g. compatible with Brad Harrison, Hirschmann, ERNI and Turck Banner. Supplied with 5m cable – bare ends. 8 to 28Vdc input.	

Options:

Output	PNP or TTL (identified by green or blue cap respectively).	
Connections	Plain OD pipe for butt welding or flanges available in alternate sizes and styles	
Flow rate, temperature, and pressure	Alternate ratings available in different sizes and styles, consult factory for further details	
Seals	FEP covered Silicon, EPDM, or FFKM for chemical protection	
IS Hazardous Area Version ATEX	See the datasheets for LMX VTC and LMX WT. Both are offered with Intrinsically Safe options. ATEX EX II 2G Ex ia IIC T4 Gb	

Documentation

Operating and Maintenance Manual	LM0637 with Quick Start LM0667	Typical order code: LMSPFA.24-V-1/4" BSPm-F	
Installation Drawing	C6077	Drawing, Parts List	On request
Conformity:	These products conform to PED and EMC. ATEX option available.		



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