


MMSS+ Series

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

Model Type	Flow Rate Range	Pressure Drop	Pipe Size	Weight
MMSS100.12.5	1 to 65 l/min	0.2 bar @ 32l/min; 0.9 bar @ 65 l/min	½" BSP female	2.5 kg
MMSS100.20	2 to 130 l/min	0.17 bar @ 65 l/min; 0.69 bar @ 130 l/min	¾" BSP female	2.5 kg
MMSS100.25	3 to 160 l/min	0.17 bar @ 80 l/min; 0.69 bar @ 160 l/min	1" BSP female	4 kg
MMSS100.30	5 to 220 l/min	0.17 bar @ 110 l/min; 0.69 bar @ 220 l/min	1¼" BSP female	4 kg
MMSS100.37	7 to 350 l/min	0.17 bar @ 175l/min; 0.7 bar @ 350 l/min	1 ½" Wafer fitting	4 kg
MMSS100.50	10 to 500 l/min	0.17 bar @ 250 l/min; 0.7 bar @ 500 l/min	2" Wafer fitting	4 kg
MMSS100.62*	20 to 800 l/min	0.17 bar @ 400 l/min; 0.7 bar @ 800 l/min	2 ½" Wafer fitting	kg
MMSS100.75*	25 to 1300 l/min	0.17 bar @ 650 l/min; 0.7 bar @ 1300 l/min	3" Wafer fitting	kg
MMSS30.100*	25 to 2200 l/min	0.17 bar @ 1100l/min; 0.7 bar @ 2200 l/min	4" Wafer fitting	kg
MMSS30.150*	100 to 5000 l/min	0.17 bar @ 2500 l/min; 0.7 bar @ 5000 l/min	6" Wafer fitting	kg
MMSS30.200L*	300 to 5500 l/min	0.17 bar @ 4000 l/min; 0.7 bar @ 8000 l/min	8" Wafer fitting	kg

* Special Order

Common Features:

Pressure Rating	100 bar [optional 345 bar and 690 bar; max design 2068 bar; replace 100 with pressure rating in meter code]	
Temperature Rating	135°C – refer calibration certificate; depends on connection type, sensor type, pressure and design. (IS version – ambient temperature -40°C to +60°C, process temperature max 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	
Body and Internals	316SS with Teflon PFA rotor and sapphire/sapphire bearings. Sealed ferrites.	
Seal	PTFE gasket [200 bar versions have Viton O ring, higher pressure versions may have Inconel O Ring]	
External materials of sensing electronics	316SS or 303SS 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). Also divide by 2, 4 or 10 function
Connections	Other BSP/NPT male or female threads or plain OD pipe for butt welding or wafer/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
IS Hazardous Area Version ATEX	Available in alternate styles to EEx ia IIC T5 – consult factory for further details (limited to process temperatures up to 70°C) Consult factory for input and output data. Housed in an IP65 epoxy coated die-cast aluminium body-mounted enclosure with 5pin DIN socket.
SB or BB IS Electronics pickup	For use either when instrumentation is also included in the hazardous area or an M20 gland is required. Body-mounted stainless steel or Naval Brass IP68 enclosure, one or two M20x1.5 gland entries.

Documentation:

Operating and Maintenance Manual	LM0114 with General Information LM0092
Installation Drawing	C3564 or C4726 and general installation C3729 or ask factory advice
Conformity:	These products conform to PED and EMC. ATEX option available.

Flowmeter Specification Sheet

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