

Features

- IP67 (Nema 4X) 316L stainless steel or aluminium construction
- Nominal flow range 10 to 600 lph (2.6 to 160 USgal/hr)
- Performance independent of flow profile or mounting orientation
- Single moving part
- Pressure to 350 bar (5150 psi)
- Temperature to 150°C (300°F)
- Both open collector and dual reed switch outputs as standard
- Measures low and high viscosity liquids up to 1,000,000 centipoise
- Adaptable to hygienic applications

Options

- Threaded, flanged or hygienic process connections
- Explosionproof or intrinsically safe operation
- Integral or remote self powered flow rate-totaliser with scaled pulse, analog and flow alarm outputs (see separate data sheet)
- Integral or remote high speed preset batch controller (see separate data sheet)

Multipulse 15mm (½") Positive Displacement Flowmeters



Overview

Multipulse PD flowmeters utilise's the widely accepted oscillating piston design principle with the performance enhanced by the use of modern engineering materials to provide a cost effective and reliable solution for a wide range of industrial flow measurement applications.

Design Simplicity

Its simple and robust design offers the advantage of only one moving part with both high resolution open collector and dual reed switch outputs as standard.

As each piston rotation passes a known liquid volume, the inherent repeatability of the Multipulse positive displacement flowmeter makes it particularly suited to batching and dispensing duties.

Application Flexibility

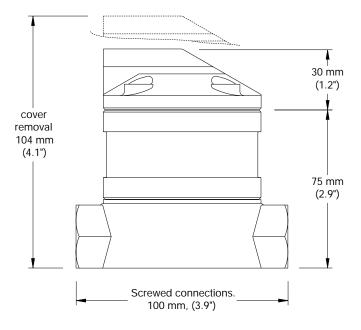
Commonly metered liquids range from non conductive low viscosity solvents through to extremely viscous lubricants, chemicals and food bases.

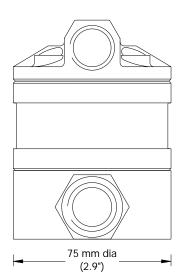
Application flexibility is further enhanced as meter performance is independent of flow profile eliminating the restrictive need for straight pipe runs required with most alternate metering technologies.

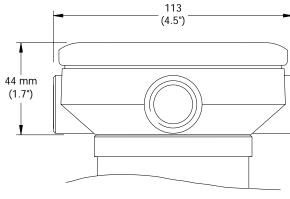
Multipulse has no stagnate chambers to harbor contaminants. There is no restrictions on mounting orientation and the flowmeter may be operated under vacuum flow, pumped flow or gravity flow conditions.

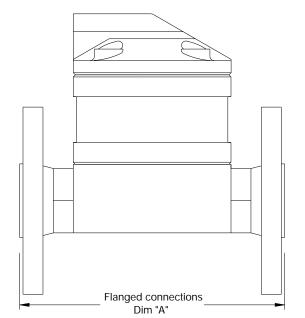
Data Sheet No.SLMP015-0601

DIMENSIONS









Optional integral electronic register.

Flange size and type	Dim "A"
1/2" ANSI 150 RF	132 mm, (5.2")
1/2" ANSI 300 RF	145 mm, (5.7")
DN15PN16	140 mm, (5.5")
DN15PN40	144 mm, (5.7")

Note: All dimensions are nominal. Drawing not to scale.

SPECIFICATIONS

Model Prefix	MP015S	MP015A	MP015H
Body Material	316L stainless steel	Aluminium	316L stainless steel
Nominal Flow Spans*	10 to 100 / 100 to 300 & 300 to 600 lph (2.6 to 160 USgal/hr) * Turndown (flow range) varies in accordance with effective viscosity of metered liquid		
Accuracy	±1% of rate within nominal spans Accuracy over the full flow range is improved to within +/-0.5% when utilising the linearisation feature of the optional Trimec RT flow rate totaliser		
Repeatability	Typically	±0.1% under steady flow of	onditions
Maximum Pressure	100 Bar(1500 psi)	30 Bar (440 psi)	350 Bar (5150 psi)
Temperature Range		ng operation from - 40 to 15 0°C (176°F) with integral electr	
Piston Material	PEEK (polyethe	eretherketone), optional car	bon filled teflon
O-Ring Material	viton, EPR (EPDM)	, teflon encapsulated viton	or nitrile (Buna-N)
Reed Switch Output	30vdc maximum voltage, 20mA maximum current Pulse resolution: 200 pulses / litre (760 pulses / US gallon)		
Open Collector Output	5 to 24vdc (25vdc maximum) 3 wire NPN (sinking current) 20mA maximum current - 1000 metres (3300 ft) maximum transmission Pulse resolution: nominally 400 pulses / litre (1520 pulses / US gallon)		
Electrical Connection	M20	x 1.5 or ½" NPT female en	tries
Process Connections	½" BSPP or NPT ½" ANSI 150/300RF flanges DN15 PN16/40 flanges 40mm triclamp hygienic (others on request)	½" BSPP or NPT (Lap Joint Flanges on request)	½" BSPP or NPT (others on request)
Environmental Protection	IP67 (Nema 4X), optiona	lly flameproof to Exd IIB T4	(Class 1, Groups C & D)
Recommended Filtering		150 microns (100 mesh)	

Remote Mounting Options for 100 Series Electronics







ORDERING INFORMATION

ORDERIN	G INFORMATION	
MP015	BODY MATERIAL	
S	316L stainless steel	
Α	Aluminium	
н	High pressure 316L stainless steel	
	PISTON & BEARING	
2	PEEK (standard)	
3	Carbon filled teflon	
	PARTITION MATERIAL	
1	Ceramic (for non lubricating liquids)	
2	316L stainless steel (standard)	
_	O-RING MATERIAL	
1	Viton (standard)	
2	EPDM	
3	Teflon encapsulated viton	
4	Nitrile (Buna-N)	
	TEMPERATURE RANGE	
- 1	-40 to 60°C (-40 to 140°F)	
- 2	10 to 120°C (50 to 250°F) * see Note 1	
- 3	60 to 150°C (140 to 300°F) * see Notes 1 & 2	
	PROCESS CONNECTIONS	
1	½" (15mm) BSPP female	
2	½" (15mm) NPT female	
3	1" (41mm OD) triclamp ferrule	
4	½" ANSI-150 RF flanges	
5	½" ANSI-300 RF flanges	
6	DN15-PN16 flanges	
7	DN15-PN40 flanges	
9	Customer nominated (special)	
CONDUIT ENTRY		
1	M20 x 1.5 female	
2	½" NPT female	
OPTIONS (integrally mounted)		
00	None	
<u> </u>	Flameproof (Exd)	
R1	RT11 rate / totaliser (scaleable pulse output & NLC*)	
R2	RT12 rate / totaliser (RT11 + 4-20 mAoutput & alarms)	
EB	Ecobatch high speed preset batch controller	



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temperature exceeds 80°C (176°F)

Note 2: PEEK piston & open collector output only

*NLC: MULTI POINT NON LINEARITY CORRECTION