

## 7. Technical data

### 7.1 DME

Pump		DME 2	DME 8	DME 12	DME 19	DME 48	
Mechanical data	Maximum capacity without anti-cavitation *1	[gph]	0.66	1.98	3.17	4.88	12.68
		[l/h]	2.5	7.5	12	18.5	48
	Maximum capacity with anti-cavitation *1	[gph]	0.47	1.47	2.37	3.83	9.77
		[l/h]	1.8	5.6	9	14.5	37
	Maximum pressure	[psi]	261	145	87	90	38
		[bar]	18	10	6	6.2	2.6
	Maximum stroke frequency *2 [stroke/min]		180	180	180	151	151
	Maximum suction lift during operation [ft]		19.7				
	Maximum initial suction lift [ft]		5.9	9.8	9.8	9.8	9.8
	Maximum viscosity with spring-loaded valves *3 [cp]		500	500	500	500	100
	Maximum viscosity without spring-loaded valves *3 [cp]		200	200	200	200	100
	Maximum liquid temperature [°F]		122				
	Minimum liquid temperature [°F]		32				
	Maximum ambient temperature [°F]		113				
	Minimum ambient temperature [°F]		32				
Accuracy of repeatability		±1%					
Weight and size	Weight [lb]	5	5	5	7.5	7.5	
	Diaphragm diameter [in]	1.1	1.5	1.8	2.2	3.1	
Electrical data	Supply voltage [V]	1 x 100-240 V, 50-60 Hz					
	Maximum current consumption [A]	at 100 V	0.27		0.35		
		at 230 V	0.16		0.26		
	Maximum power consumption P <sub>1</sub> [W]	16.2		22.1			
	Enclosure class	IP 65					
Insulation class	F						
Signal input	Voltage to level sensor input [VDC] Must only be safety extra-low voltage.	5					
	Voltage to pulse input [VDC]	5					
	Minimum pulse-repetition period [ms]	3.3					
	Impedance in analog 4-20 mA input [ohms]	250					
	Maximum loop resistance in pulse signal circuit [ohms]	350					
Maximum loop resistance in level signal circuit [ohms]	350						
Signal output	Maximum load of alarm relay output, at ohmic load [A]	2					
	Maximum voltage, alarm relay output [V]	250					
Approvals		CE, UL					

\*1 At any counter-pressure if the pump is calibrated to the actual installation.

\*2 The maximum stroke frequency varies according to calibration.

\*3 Maximum suction lift 3 feet.

## 7.2 DMS

Pump		DMS 2	DMS 4	DMS 8	DMS 12	
Mechanical data	Maximum capacity <sup>*1</sup>	[gph]	0.66	1.05	1.98	3.17
		[l/h]	2.5	4	7.5	12
	Maximum pressure	[psi]	160	102	78	49
		[bar]	11	7	5.4	3.4
	Maximum stroke frequency <sup>*2</sup> [min]	180				
	Maximum suction lift during operation [ft]	19.7				
	Maximum initial suction lift [ft]	5.9	6.5	9.8	9.8	
	Maximum viscosity with spring-loaded valves <sup>*3</sup> [cp]	500				
	Maximum viscosity without spring-loaded valves <sup>*3</sup> [cp]	200				
	Maximum liquid temperature [°F]	122				
	Minimum liquid temperature [°F]	32				
	Maximum ambient temperature [°F]	113				
	Minimum ambient temperature [°F]	32				
	Accuracy of repeatability	±1%				
Weight and size	Weight [lb]	5				
	Diaphragm diameter [in]	1.1	1.3	1.5	1.8	
Electrical data	Supply voltage	1 x 120 V -12%/+8%, 60 Hz				
	Maximum current consumption [A]	0.17				
	Maximum power consumption P <sub>1</sub> [W]	20				
	Enclosure class	IP 65				
	Insulation class	F				
Signal input	Voltage to level sensor input [VDC] Must only be safety extra-low voltage.	5				
	Voltage to pulse input [VDC]	5				
	Minimum pulse-repetition period [ms]	3.3				
	Impedance in 4-20 mA analog input [ohms]	250				
	Maximum loop resistance in pulse signal circuit [ohms]	350				
	Maximum loop resistance in level signal circuit [ohms]	350				
Signal output	Maximum load of alarm relay output at ohmic load [A]	2				
	Maximum voltage, alarm relay output [V]	250				
Approvals	CE, UL					

<sup>\*1</sup> At any counter-pressure if the pump is calibrated to the actual installation.

<sup>\*2</sup> The maximum stroke frequency varies according to calibration.

<sup>\*3</sup> Maximum suction lift 3 feet.