

The MEMDOS series is an economical line of motor driven, mechanical diaphragm metering pumps. This versatile line offers two versions to meet a variety of applications. The base model, MEMDOS E, is a manually controlled version. For applications requiring control by an external signal, the intelligent MEMDOS DX offers state-of-the-art microprocessor control. By integrating the speed control, the MEMDOS DX eliminates the need for the further expense of additional variable speed controllers.

High quality mechanics, combined with the proven reliability of our MAGDOS series brains, brings advanced technology to the metering pump industry.

There are two chassis sizes within the MEMDOS E and MEMDOS DX family. The smaller size is rated for capacities up to 42 gph. The larger size is rated for capacities up to 92 gph. Pressure ranges are available to 150 psi, depending on pump capacity. Check valves are double ball or spring-loaded single ball design.

MEMDOS E

- Stroke length control features 10:1 turndown
- Capacities up to 92 gph, pressures up to 150 psig

MEMDOS DX

Application Flexibility

- Up to 1400:1 turndown provides more precision in process control
- Automatic or manual control
- NEMA 4X enclosure protects electronics in harsh environments

Microprocessor Control

- Integrated speed control allows for the selection of several control signals:
 - pulse/contact control
 - multiplication/division capabilities
 - analog control...4-20 mA, 0-20 mA
- Remote start/stop capabilities
- Input signal monitoring and output alarms

User Friendly

- Touch pad and LCD display
- Self-diagnostic system for monitoring chemical feed process. Messages displayed for tank low level & loss of analog signal.





Options

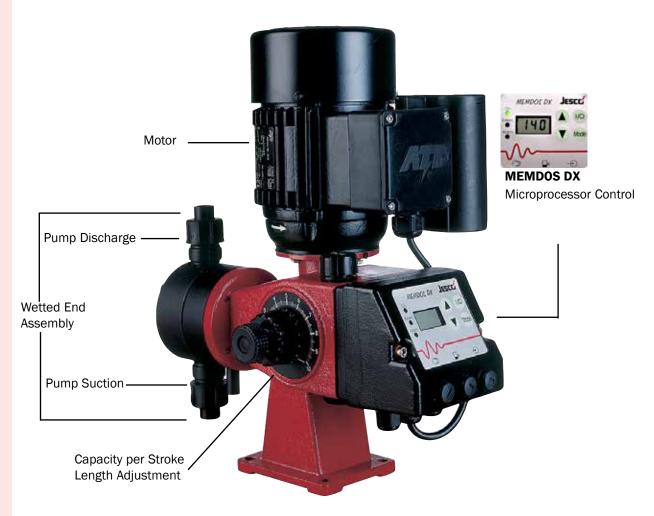
- Double diaphragm liquid end
- Automatic stroke length control (E model only)
- Leak detection
- Tank low level indication and alarm (DX model only)

Materials of Construction

Liquid ends of Polypropylene, PVC, PVDF and 316 Stainless Steel. Diaphragms are PTFE-coated EPDM. Seals of Viton™, Hypalon™ or PTFE are available.



Chassis Size						4 - 156				160 - 300			
Model		4	8	15	26	50	76	110	15 6	160	200	300	
Capacity	gph	1.2	2.3 4.7 6			15.2	19	33.8	42.2	49	66	92	
Capacity	l/h	4.7	8.7	17.7	22.7	57.5	71.9	127.9	159.7	185.4	249	348	
Maximum pressure	psig			15	50			75	60	15	50	125	
Capacity/stroke	ml		2	.6		8.	5	1	9	36	.5	51.2	
Stroke frequency	SPM	32	58	114	140	114	140	114	140	85	114	114	
Diaphragm diameter	in.		2.0	04		2.5	2.51 3.54			4.7	72	5.9	
Suction lift	ft H ₂ O		1	.3		11 10				8			
Stroke length	in.		0	.2			0.3	35		0.393			
Motor - 1-phase E/DX	Нр				1,	/6				1/3			
Motor - 3-phase E	Нр				1,	/3				1/2			
Max. ambient temperature	°F		PVC & Polypro: 104°; PVDF: 120°; 316S: 140°										
Gear Ratio		55:1	30:1	15:1	12:1	15:1	12:1	15:1	12:1	20:1	15:1	15:1	





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Options

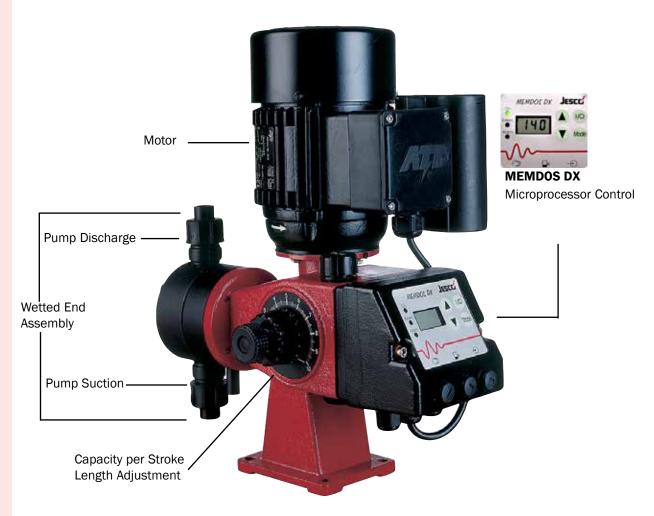
- Double diaphragm liquid end
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Materials of Construction

Liquid ends of Polypropylene, PVC, PVDF and 316 Stainless Steel. Diaphragms are PTFE-coated EPDM. Seals of Viton™, Hypalon™ or PTFE are available.



Chassis Size						4 - 156				160 - 300			
Model		4	8	15	26	50	76	110	15 6	160	200	300	
Capacity	gph	1.2	2.3 4.7 6			15.2	19	33.8	42.2	49	66	92	
Capacity	l/h	4.7	8.7	17.7	22.7	57.5	71.9	127.9	159.7	185.4	249	348	
Maximum pressure	psig			15	50			75	60	15	50	125	
Capacity/stroke	ml		2	.6		8.	5	1	9	36	.5	51.2	
Stroke frequency	SPM	32	58	114	140	114	140	114	140	85	114	114	
Diaphragm diameter	in.		2.0	04		2.5	2.51 3.54			4.7	72	5.9	
Suction lift	ft H ₂ O		1	.3		11 10				8			
Stroke length	in.		0	.2			0.3	35		0.393			
Motor - 1-phase E/DX	Нр				1,	/6				1/3			
Motor - 3-phase E	Нр				1,	/3				1/2			
Max. ambient temperature	°F		PVC & Polypro: 104°; PVDF: 120°; 316S: 140°										
Gear Ratio		55:1	30:1	15:1	12:1	15:1	12:1	15:1	12:1	20:1	15:1	15:1	





Double diaphragm metering pumps of the MEMDOS GMR series can be supplied as single or duplex metering pumps. The pumps are used to meter large quantities at relatively low back pressures. They are frequently used in waste-water treatment to meter pH-regulating chemicals or flocculent. The metering pumps are available in three sizes as single metering pumps for 528 to 1,057 gph.

Different metering heads can be connected to the duplex metering pumps. The metering heads are then operating in a reciprocating mode and the quantity metered is set for both heads at the same time.

Standard designs consist of a single metering pump with a left-hand metering head arrangement and duplex metering pumps with two metering heads.

Metering Head

The characteristic feature is the duplex diaphragm (7+8). The eccentric (5) guides the diaphragm (7) almost following the sine wave over the constant stroke. Since the large supporting disks always carry the whole surface of the diaphragm (7) in the maximum eccentric positions, a piston-like displacement effect is achieved. This results in a very high metering accuracy for diaphragm metering pumps independent of the back pressure. The front supporting disk for the suction stroke must not get into touch with the medium because of chemical resistance and possible abrasiveness. Therefore, a second diaphragm (8) is provided, which has a merely separating function and is therefore neutral in respect to forces. The medium side of the EPDM separating diaphragm (8) is coated with PTFE.

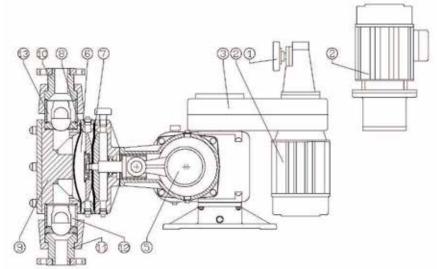


A precisely dimensioned glycerin filling (6) acts as hydraulic push rod and thus the distance between the two diaphragms remains constant. Also the rear diaphragm chamber is partly filled with glycerin for lubrication purposes. The suction (12) and discharge valves (13) are springloaded flat seat valves. The suction (11) and discharge connections (10) are available in plastic or stainless steel design.

Drive

There are two possibilities to drive the eccentric (5):

- 1. By means of a variable speed belt drive (3) with three-phase motor (2). The control range is approximately 1:6. The drive may only be adjusted while the motor is rotating (2).
- By means of a three phase AC motor (2). The speed of this motor can be controlled within a range of 1:10 via also available frequency inverters.



Legend

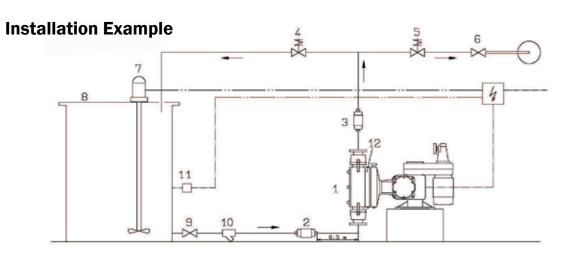
- 1 Handwheel for speed adjustment
- 2 Three-phase AC motor
- 3 Belt gearbox
- 5 Eccentric
- 6 Glycerin filling
- 7 Rear diaphragm
- 8 Front diaphragm
- 9 Metering head10 Discharge connection
- 11 Suction connection
- 12 Suction valve
- 13 Discharge valve



Additional Components

Upon request, the MEMDOS GMR can be equipped with an inductive probe which samples the crankshaft to count the strokes. For diaphragm rupture detection, the front glycerin chamber can be monitored by means of a conductivity probe.

MEMDOS GMR			2000	3000	4000		
Max. pressure		psig	4	3	2		
	Delivery rate	gph	82 - 528	122 - 793	164 - 1057		
Stepless control drive	Stroke frequency	min ⁻¹	11 - 55	11 - 66	11 - 68		
	Stroke volume	ml/stroke	680	750	980		
	Delivery rate	gph	423	634	845		
Three phase motor drive at 2,850 min ⁻¹	Stroke frequency	min ⁻¹		58			
	Stroke volume	ml/stroke	680	750	980		
Engine power		kW		2.2			
Diaphragm diameter		in	8.346	9.9	921		
Stroke length		mm	23	26	32		
Suction lift		ft H20		4			
Max. supply pressure ($\boldsymbol{\Sigma}$ static and dynamic)		mbar		500			
Maximum ambient temperature		°F		104			
Max. temperature of the medium		°F		40			
Weight	Plastic dosing head	lb	320 364		64		
Weight	Stainless steel dosing head	lb	342	4:	30		



Legend	
2. Pulsation dampener 7. f. suction pipeMB 1 27 01 8. 3. Pulsation dampener 9. f. discharge pipeMB 1 27 01 1. 4. Relief valveMB 1 25 01 1.	Injection nozzle



Reliable dosing of chemicals

Motor-driven diaphragm dosing pumps play an important role in the reliable and accurate dosing of liquids in process cycles. They are appropriate for low-pressure applications and high dosing quantities.

Dosing pumps are used in many branches of industry that work with liquid chemicals - not excluding toxic and highly-aggressive media.

Riding on the crest of the waves

Two sizes of the MEMDOS LB series are available. A large coverage in terms of performance and chemical resistance is available, thanks to the variety of dosing heads, combined with a wide range of dosing head materials.

The performance ranges from 0 - 325 gph. The maximum permitted pressure, depending on the size, is between 58 and 232 psig.

Thanks to the sturdy tappet drive with manual or automatic capacity adjustment, the conveyed media such as acids, lyes, coagulants and flocculants are dosed reliably and precisely.

On request, the MEMDOS LB pumps can also be supplied with a double diaphragm system, therefore avoiding uncontrolled leakage of media if the dosing diaphragm wears out.

Versatile and flexible

The MEMDOS LB can be used when the integration of the pump into external controls or control circuits is required.

For constant dosing without a controller, the powercord of the MEMDOS LB is directly connected to the terminal box. A variety of three-phase and singlephase motors is available for this purpose.

To adjust the dosing capacity, either the stroke length can be adjusted mechanically/automatically or the speed of the three-phase motor can be regulated by means of a separate variable frequency drive.



In Short

- Capacity range 0 to 325 gph, up to 232 psig
- Minor dependence of the backpressure
- Infinitely variable stroke frequency from 0 to 100%
- Tappet drive with manual and automatic capacity adjustment
- Materials available: PVC, PP, PVDF and stainless steel
- Compact design, low space requirement
- Material consistency for the pumps and accessories
- A variety of three-phase and single-phase motors are available
- Double-diaphragm system (optional)
- ATEX versions for Zones 1 and 2 are available
- Also suitable for variable frequency drive operation



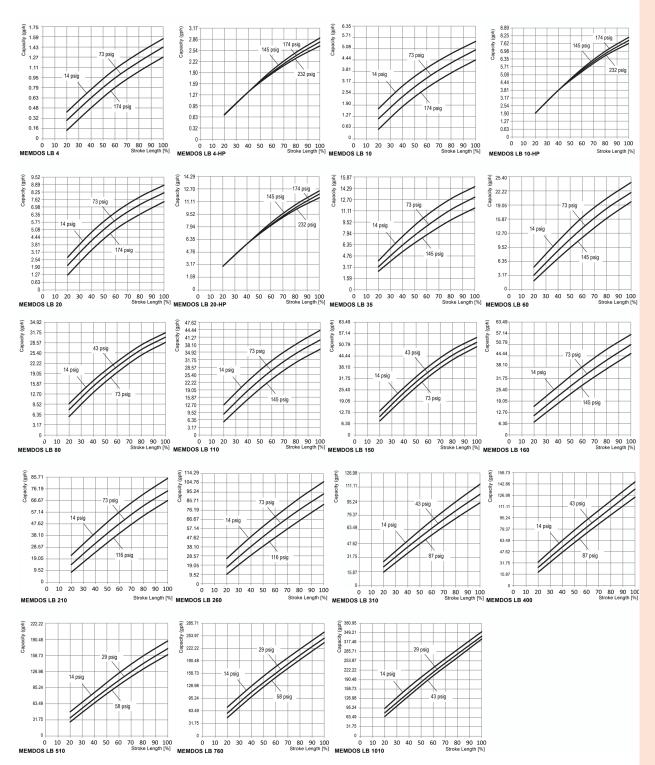
MEMDOS LB			4	4-HP	10	10HP	20	20HP	35	60	80	150	
Delivery capacity	50 Hz	ero lo	1.06	2.22	3.70	6.35	5.82	9.52	9.52	16.67	23.81	41.27	
at maximum	60 Hz	gph	1.3	2.7	4.4	7.6	7.0	11.4	11.4	20	29	50	
backpressure	ml/stroke		2.7	5.4	2.7	5.4	2.7	5.4	8.6	8.6	21.4	21.4	
Max. back pressure	е	psig	174	232	174	232	174	232	14	45	7	2	
Max. stroke	50 Hz	RPM	2	6	7	2	1:	20	72	120	72	120	
frequency	60 Hz	RPIVI	31.2	31.2	86	6.4	14	44	86.4	144	86.4	144	
Suction head for no media	on-gassing	ftH ₂ O			2	9			2	26 23			
Max. inlet pressure)	psig					7.3	PSI					
Stroke length		mm	0.3"							0.4"			
Nominal valve widt	h				10	N4			DI	N6	0.4" DN10		
Voltage supply						1	15V (230	V optiona	l)		0.4" DN10		
Motor efficiency					Grea	ater than 9	90% (ene	rgy efficie	ncy class	IE4)			
Protection class							IP	55					
Insulation class							I	F					
	PVC					9.	9				1	3	
Weight	PP	lla.				9.	9				1	3	
(without a motor)	PVDF	lb				10	.6				16	5.5	
	Stainless Steel					13	.2				24	.7	
Max. ambient temp	perature	°F	PVDF, Stainless Steel 41-113° (104°						o with PV	ith PVC parts)			
Max. temperature of th	e medium	°F			176	o (with PV	C parts 9	5°; with P	P parts 1	40°)			

MEMDOS LB			110	160	210	260	310	400	510	760	1010	
Delivery capacity	50 Hz	et in la	30.2	38.1	55.6	69.8	77.8	103.2	133.3	196.8	269.8	
at maximum	60 Hz	gph	36	46	67	84	93	124	160	236	324	
backpressure	ml/stroke		21	4	38	3.1	55	5.3		170		
Max. back pressure		psig		14	15		116	87	5	8	44	
Max. stroke	50 Hz	RPM	96	120	96	120	96	120	53	76	107	
frequency	60 Hz	KEWI	115	144	115	144	115	144	64	92	128	
Suction head for non-gas	ssing media	feet	2	3	1	9	1	14 3				
Max. inlet pressure		psig					7.3 PSI					
Stroke length		mm			0.	0.4"			0.5"			
Nominal valve width			DN	10		DN	115		DN25			
Voltage supply						115V	(230V opt	ional)	170 58 53 76 64 92 3 0.5" DN25			
Motor efficiency					Greater	than 90%	(energy ef	ficiency cla	ass IE4)			
Protection class							IP 55					
Insulation class							F					
	PVC		19	9.8	21	6	25	5.4		39		
Weight	PP	lb	19	9.8	21	6	25	5.4		30		
(without a motor)	PVDF	10	21	2	23	3.6	28	3.7		35.7		
	Stainless Steel		31.5 38.4			3.4	51	1		79.4		
Max. ambient temper	Max. ambient temperature °F 41-113° (104° with PVC parts)											
Max. temperature of the	he medium	°F	PVDF, Stainless Steel 176° (with PVC parts 95°; with PP parts 140°)									



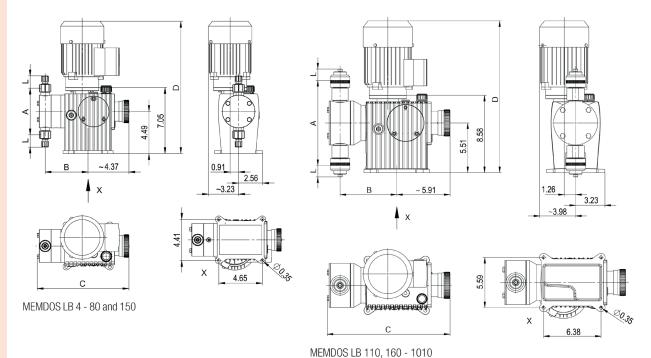
Delivery Characteristic Curves

The supply performance graph is valid for 20°C (68°F) for water at 100% stroke frequency. The delivered capacity depends on the medium (density and viscosity) and temperature. Dosing must therefore be calibrated during practical use.





Dimensions



Size	4-20	35-60	80, 150	110 , 160	210-260	310-400	510-1010				
A	4.96	5.87	9.80	9.45	10.55	12.30	13.86				
В	4.57	4.78	5.24	6.30	6.70	6.89	7.28				
С	9.96	10.24	11.18	12.80	13.19	13.39	14.37				
D (standard motor)	15.31	15.31	15.31	17.20	17.20	17.20	17.72				
L	Depends on the connection type and size										

All dimensions in inches

Accessories

Suitable sets of accessories, which consists of a suction line, a pressure line and an injection nozzle, are available for the dosing pumps. Even the best pump can still be improved - namely by the right accessories. To make your dosing pump into an efficient dosing system, we recommend using the following accessories:

- Injection nozzles to dose the medium in the main line and to prevent it flowing back into the pressure line
- Pressure loading and relief valves to increase dosing accuracy or to protect the system against excessive pressure

- Pulsation dampener to dampen supply currents as well as to reduce the flow resistance in long pipelines.
- Priming aids to significantly ease priming of dosing pumps with low supply volumes per stroke, for large suction heights, for highly viscous dosing media or for initial priming or when priming after the system has been laying idle
- Suction pressure regulator to prevent medium flow when the dosing pump is not running or to prevent a vacuum being formed in the event of a pipe burst

For further accessories for your dosing pump, please refer to our dosing pump brochure.



Reliable dosing of chemicals

Motor-driven diaphragm dosing pumps play an important role in the reliable and accurate dosing of liquids in process cycles. They are appropriate for low-pressure applications and high dosing quantities.

Dosing pumps are used in many branches of industry that work with liquid chemicals - not excluding toxic and highly-aggressive media.

Riding on the crest of the waves

Two sizes of the MEMDOS LP series are available. A large coverage in terms of performance and resistance is available, thanks to the variety of dosing heads, combined with a wide range of dosing head materials.

The performance ranges up to 41 gph for the first size, up to 270 gph for the second size. The maximum permitted pressure, depending on the size, is between 58 and 232 psig.

Thanks to the sturdy tappet drive with manual or automatic capacity adjustment, the conveyed media such as acids, lyes, coagulants and flocculants are dosed reliably and precisely.

On request, the MEMDOS LP pumps can also be supplied with a double-diaphragm system. Then uncontrolled leakage of media is avoided even if the dosing diaphragm wears out.

Versatile and flexible

The MEMDOS LP is used when the integration of the pump into controls or control circuits is required. For integration into demanding automation networks, a version with an Ethernet-based MODBUS interface is available.

The MEMDOS LP doesn't just impress with its elegant design; the graphical display with a multi-language menu as well as the dosing pump's operation using the integrated keyboard simplifies its use.

If required, the dosing pump can be controlled via an analogue or pulse input. To react to any variations in the control circuit, the pump has many additional functions; stroke remote reporting, external operation consent, level monitoring, fault reporting via a relay as well as diaphragm rupture monitoring.



In Short

- Capacity range up to 270 gph, at up to 232 psig
- Minor dependence of the backpressure
- Graphical display with multi-language menu
- Precise pump adjustments using the keyboard
- Supply amount displayed in various units
- Infinitely variable stroke frequency from 0 to 100%
- Calibration functionality
- External control via standard signal 0/4 20 mA
- External control via floating contacts with impulse increase and reduction
- Materials available: PVC, PP, PVDF and stainless steel
- Diaphragm breakage detection and reporting (optional)
- Compact design, low space requirement
- Material consistency for the pumps and accessories
- Double-diaphragm system (optional)
- Ethernet interface (optional)
- Batch dosing with interval and timer function





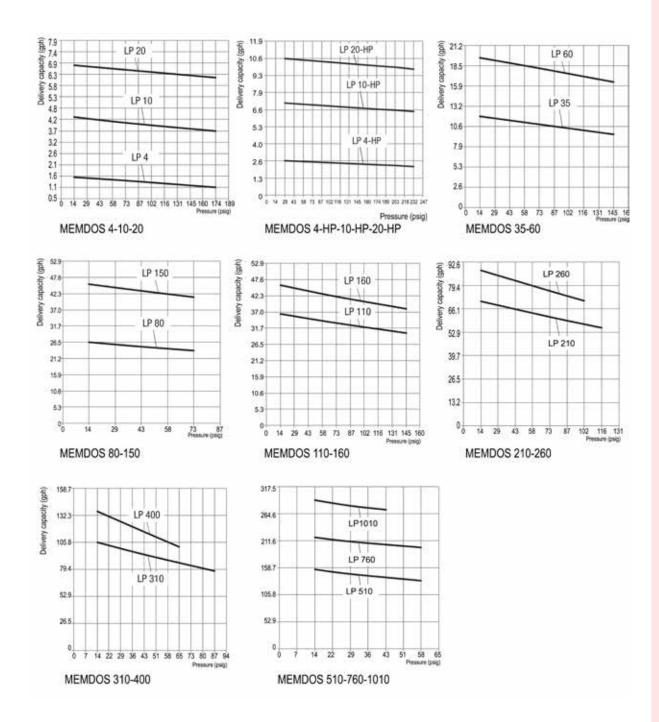
MEMDOS LP			4	4-HP	10	10HP	20	20HP	35	60	80	150	
Delivery capacity at backpressure (50/6		gph	1.1	2.2	3.7	6.0	5.8	9.6	9.5	16.7	24	41	
Max. supply pressur	е	psig	174	232	174	232	174	232	14	45	7	2	
Max. stroke frequence	cy (50/60 Hz)	SPM	26	26	72	72	120	120	72	120	72	120	
Suction head for non-	gassing media	feet H ₂ O			2	29			2	6	2	:3	
Max. supply pressur	e	psi					7.3	PSI					
Stroke length		inch			0.	.3"				0.	4"		
Stroke volume		ml/stroke	2.7	5.4	2.7	5.4	2.7	5.4	8.6	8.6	19.3	21.4	
Nominal valve width			DN4							DN6 DN10			
Voltage supply							23	BOV					
Motor efficiency					Grea	ter than 9	90% (ene	rgy efficie	ncy class	s IE4)			
Protection class							IP	55					
Insulation class								F					
	PVC					2	4				2	27	
Weight	PP	lb				2	4				2	27	
(without a motor)	PVDF	IU				2	4				3	0	
	1.4571					2	7			38			
Max. ambient tempe	erature	°F				41-113	°F (104°I	F with PVC	parts)				
Max. temperature of the	medium	°F	176°F (with PVC parts 95°F; with PP parts 140°F)										

MEMDOS LP			110	160	210	260	310	400	510	760	1010		
Delivery capacity at max backpressure (50/60 Hz		gph	30	38	56	70	78	103	133	197	270		
Max. supply pressure		psig		14	15		116	87	58 44				
Max. stroke frequency (50)/60 Hz)	SPM	96	120	96	120	96	120	53	76	107		
Suction head for non-gassin	ng media	feet H ₂ O	2	3	1	9	1	4		3			
Max. supply pressure		psi					7.3 PSI						
Stroke length		inch			0.	4"				0.5"			
Stroke volume		ml/stroke	2.7	5.4	2.7	5.4	2.7	5.4	8.6				
Nominal valve width			DN10 DN15							DN25			
Voltage supply							230V						
Motor efficiency			Greater than 90% (energy efficiency cla						ass IE4)				
Protection class							IP 55						
Insulation class							F						
	PVC		43	3.4	45	5.6	5	0		67.2			
Weight	PP	lb	43	3.4	45	5.6	5	0		67.2			
(without a motor)	PVDF	10	44	l.1	46	5.7	51	5		71			
	1.4571		5	5	64	.5	75	5.8		115			
Max. ambient temperatu	ire	°F	41-113°F (104°F with PVC parts)					C parts)					
Max. temperature of the	medium	°F			176°F (wi	th PVC par	rts 95°F; w	ith PP par	ts 140°F)				

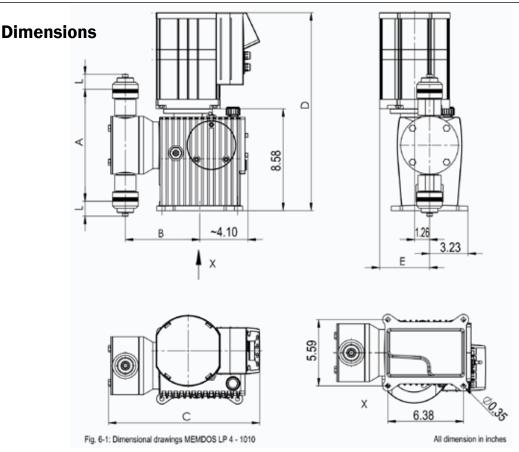


Flow curves

The flow curves are valid for ambient temperatures of 68°F (20°C) and dosing water at 100% stroke frequency. The delivery capacities depend on the medium (density and viscosity) and temperature.







Accessories

Suitable sets of accessories, which consists of a suction line, a pressure line and an injection nozzle, are available for the dosing pumps. Even the best pump can still be improved - namely by the right technical periphery. To make your dosing pump into an efficient dosing system, we recommend using the following accessories:

- Injection nozzles to dose the medium in the main line and to prevent it flowing back into the pressure line
- Pressure loading and relief valves to increase dosing accuracy or to protect the system against too high a pressure
- Pulsation dampener to damp supply currents as well as to reduce the flow resistance in long pipelines.
- Priming aids to significantly ease priming of dosing pumps with low supply volumes per stroke, for large suction heights, for highlyviscous dosing media or for initial priming or when priming after the system has been laying idle
- Suction pressure regulator to prevent medium flow when the dosing pump is not running or to prevent a vacuum being formed in the event of a pipe burst

Size	4-20	35-60	80, 150	110 , 160							
Α	4.96	5.87	9.80	9.80							
В	4.57	4.78	5.24	6.30							
С	10.87	11.14	12.09	12.80							
D	16.22	16.22	16.22	16.93							
E		3.90		4.21							
L	Depends on the connection type and size										
Size	210-260	310-400	510-	1010							
Α	10.55	12.30	13	.86							
В	6.69	6.89	7.28 (6.83*)							
С	13.19	13.39	14.37 (13.33*)							
D	16.93	16.93 16.93 18.11									
E	4.21										
L	Depends on the connection type and size										

* with dosing head of stainless steel All dimensions in inches

For further accessories for your dosing pump, please refer to our dosing pump brochure.



The design of the 2300 Series mechanically actuated diaphragm metering pump is compact, modular, and state-of-the-art. Simplex and duplex models are available. The rugged design makes this pump ideal for most municipal or industrial water treatment chemical applications.

This pump has a metering head designed with a separation chamber behind the diaphragm that protects the body of the pump should the diaphragm rupture or crack due to wear. Any leakage will drain harmlessly back to the tank or an alternate location. Escaping leakage may be detected by a probe, which can be used to shut off the pump or send an alarm.

Performance

Nine different models are available, offering maximum capacities from 17 to 310 gph and a maximum pressure rating of 150 psig.

The drive consists of a single stage reduction worm gear and is lubricated for long life. It includes a 120 VAC single-phase or 230/460 VAC 3-phase TE or XP motor.

The stroke length may be either manually or automatically adjusted from 0-100%. The 2300 Series is designed with low stroking speeds for long term reliability.

Materials of Construction

The 2300 Series can be supplied with 316 Stainless Steel and Polypropylene wetted ends. All diaphragms are PTFE-coated EPDM for severe chemical duty applications. Models 2310-2360 are supplied with double ball type check valves on both the suction and discharge side. In these models, optional spring-loaded single ball checks are available for metering chemicals with higher viscosities. Models 2370-2390 are supplied with check valves of spring-loaded single poppet design. Cemented and NPT pipe connections are standard.

Features

- A micrometer stroke length adjustment allows for in-motion capacity control of 0-100%
- Power Supply 120 VAC single-phase or 230/460 VAC 3-phase TE or XP motor
- All internal mechanics are oil lubricated



Options

- Electronic Capacity Adjustment (ECA) to control pump stroke length in response to a 4-20 mA signal
- Automatic AC or DC motor speed control by analog input signal
- Double diaphragm system protects environment and pump components in case of diaphragm failure
- Injection nozzles and foot valves
- Wall Bracket
- Splash Guards

Applications

- Municipal water and wastewater treatment
- Industrial chemical applications



Model			2311 2321 2331 2341 2351 2361						2371	2381	2391
Capacity per head @ maximu	m pressure	gph	17	28	43	51	76	92	139	203	310
Maximum pressure		psig	150						7	75	
Stroke frequency		SPM	58	86	124	86	1:	24	58	86	124
Diaphragm diameter		in	3.50 4.70 5.90							7.30	
Suction lift		ft H ₂ O	9						6		
Motor		Нр		1,	/2		3/4	1	3/4 1		
Max. temperature of prod	ess fluid	°F				PP: 12	.0°, 316SS	S: 175°			
Weight (including motor)	Simplex	lbs.		62			66			84	
Plastic Head	Duplex	lbs.	84 88							110	
Weight (including motor)	Simplex	lbs.	75 95							106	
316SS Head	Duplex	lbs.		106			117			132	

