

ARMFLOW

PRODDGZ
METERING PUMPS



www.armflow.com

Armflow Pump Technologies B.V. has been established to serve the related industries by producing various pumps, air blowers and chemical dosing pumps for use in air and fluid transfer in environmental industry and industrial facilities.

Armflow Pump Technologies B.V. with experienced engineers and technical staff, besides right product selection, proposal preparation, equipment and spare parts sales, provides repair, start-up, commissioning and supervision services.

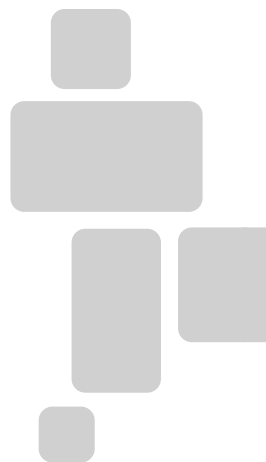
Our vision is to be the first choice in the needs of our customers that we see as business partners and to serve without sacrificing quality.

Our mission is to be a company that supports the growth of our business with competitive products and services, adding value to our business partners and sustainable win & win philosophy.

Our target is to become an indispensable partner with its solution-oriented approach which contributes to the process and growth of business partners by increasing the quality of service to related sectors.

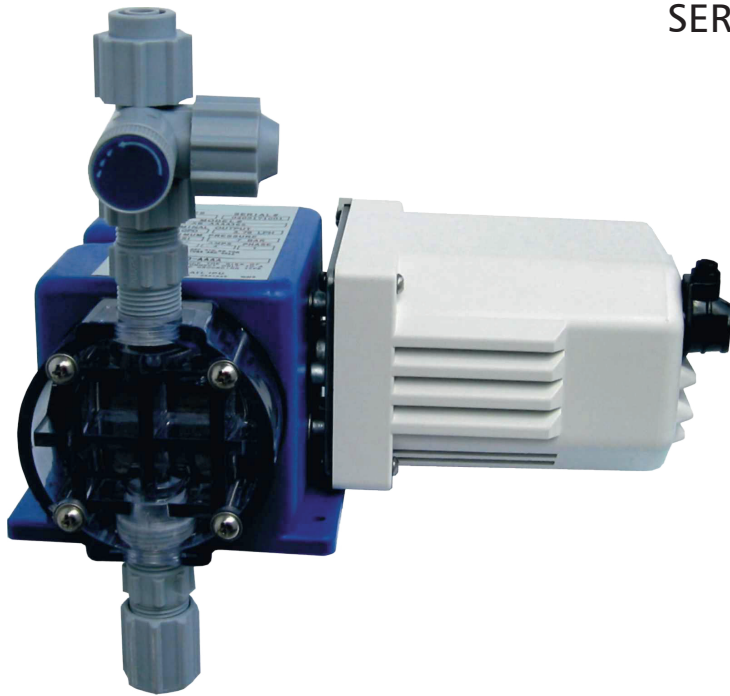
ARMFLOW

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PRODOZ MECHANICAL DIAPHRAGM TYPE METERING PUMPS

MPS SERIES



Mechanical actuated , long life strong diaphragm
Easy installation and simple operation
Accurate and 0-100% adjustable flow rate
Economical and practical design
Anticorrosive plastic main materials

Capacities up to 15,77 lt/hr
Pressures up to 7 bar
Accuracy \pm %1
Temperatures between -10 °C / +40 °C
Max suction height 2 m
Standard electric motors of 220 V, 50 Hz
Manual stroke adjustment is standard.



	MATERIALS	
	SS	PVC
Pump Head	SS	PVC
Connection parts	SS	ABS
Valve Seats	PTFE	VITON
Diaphragm	PTFE	VITON
Valve Ball	SS	CERAMIC
O-Rings	PTFE	PTFE
Tubes	-	PE

Prodoz Model	Capacity	Max. Pressure	Pump Speed	Pipe Connection	Motor Power	Weight
	(lt/h)	(bar)	(spm)		(W)	(kg)
MPS-0,47-7	0,47	7	7	M 1,9 x 1,5	15	4,1
MPS-1,1-7	1,1		13			
MPS-2,36-7	2,36		25			
MPS-3,78-7	3,78		51			
MPS-4,72-7	4,72		51			
MPS-10,72-4,2	10,72	4,2	70			
MPS-15,77-4,2	15,77		70			

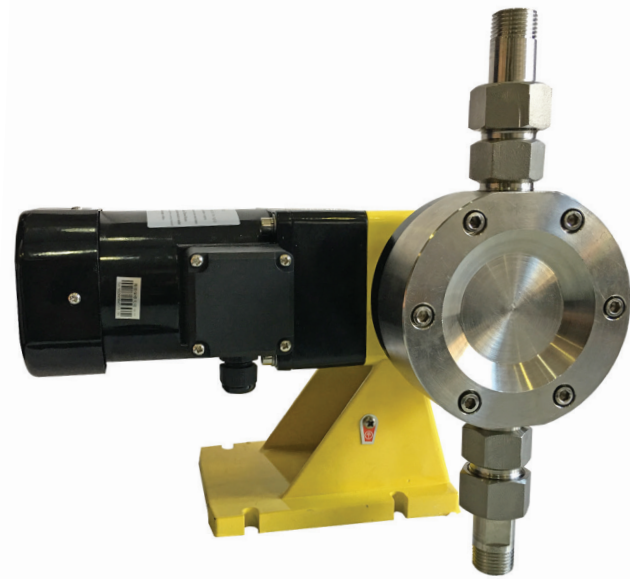
PRODOZ
MECHANICAL DIAPHRAGM
TYPE METERING PUMPS

MPM
SERIES

Mechanical actuated, long life strong diaphragm
Easy installation and maintenance
Accurate and 0-100 adjustable flow rate
Economical and practical design
Automatic 4-20 mA operation as option

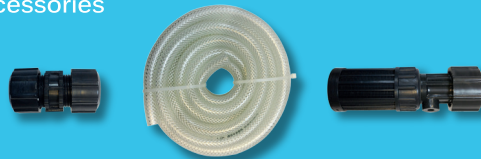
Capacities up to 150 lt/hr
Pressures up to 10 bar
Accuracy $\pm 1\%$
Temperatures between $-10\text{ }^{\circ}\text{C}$ / $+40\text{ }^{\circ}\text{C}$
Max suction height 2 m
Standard electric motors of 220/380 V, 50 Hz

Manual stroke adjustment is standard.
Digital controller is available as option.



	MATERIALS		
Pump Head	SS	PVC	PVDF
Valve Seats	SS	PVC	PVDF
Diaphragm	PTFE	PTFE	PTFE
Valve Ball	SS	CERAMIC	CERAMIC

Accessories



Prodoz Model	Capacity	Max. Pressure	Pump Speed	Stroke Length	Pipe Connection	Motor Power	Weight
	(lt/h)	(bar)	(spm)	(mm)		(W)	(kg)
MPM-6.5-10	6,5	10	54	2	O.D : 15 mm I.D : 9,0 mm	60	7,3
MPM-12-10	12		108				
MPM-24-10	24		90	4			
MPM-32-10	32		135				
MPM-42-10	42		135	5			
MPM-60-10	60	150					
MPM-80-05	80	5	150	4	DN 15	90	8,5
MPM-90-05	90		135				
MPM-100-05	100		150	5			
MPM-110-03	110	3	150				
MPM-120-03	120		135				
MPM-150-03	150		150	4			

PRODOZ MECHANICAL DIAPHRAGM TYPE METERING PUMPS

MPK SERIES

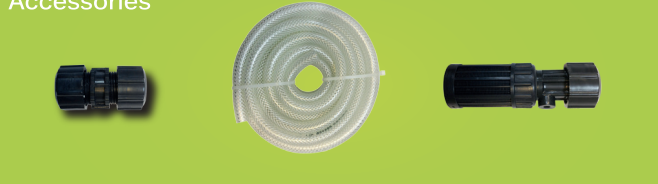


Mechanical actuated diaphragm
Power-off seal, no leakage
Compact design in simple structure
Heavy duty design with durable features

Capacities with single head up to 170 lt/hr
Pressures up to 12 bar
Accuracy $\pm 1\%$
Temperatures between $-10\text{ C} / +40\text{ C}$
Max suction height 2 m
Standart electric motors of 220/380 V, 50 Hz

Manual stroke adjustment is standard
Stroke actuator or digital controller is available as option

Accessories



	MATERIALS		
Pump Head	SS	PVC	PVDF
Valve Seat	SS	PVC	PVDF
Diaphragm	PTFE	PTFE	PTFE
Valve Ball	SS	CERAMIC	CERAMIC

Type	Capacity (L/H)	Pressure (Bar)	Str.Speed (spm)	Str. Length (mm)	Connection Size	Average input Power (W)	Weight (Kg)
MPK-4.5-12	4.5	12	75	2	O.D : 15 mm I.D : 9,0 mm	40	11,5
MPK-06-12	6	12	75	2			
MPK-12-12	12	12	108	2		60	
MPK-24-12	24	12	108	4			
MPK-30-12	30	12	108	5		90	
MPK-45-12	45	12	150	4			
MPK-60-12	60	12	150	5	DN15	120	12
MPK-80-09	80	9	108	4			
MPK-100-07	100	7	108	5			
MPK-120-06	120	6	150	4		13	
MPK-150-05	150	5	150	5			
MPK-170-04	170	4	180	5			

PRODOZ
MECHANICAL DIAPHRAGM
TYPE METERING PUMPS

MPL
SERIES



Mechanical actuated diaphragm
Power-off seal, no leakage
Compact design in simple structure
Heavy duty design with durable features

Capacities up to 500 lt/hr
Pressures up to 12 bar
Accuracy \pm %1
Temperatures between -10 °C / +40 °C
Max suction height 2 m
Standard electric motors of 220/380 V, 50 Hz

Manual stroke adjustment
is standard.
Stroke actuator or digital
controller is available as option.

	MATERIALS		
Pump Head	SS	PTFE	PVC
Diaphragm	PTFE	PTFE	PTFE
Valve Seats	SS	PVDF	PVC
Valve Ball	CERAMIC	CERAMIC	CERAMIC

Prodoz Model	Capacity	Max. Pressure	Pump Speed	Stroke Length	Pipe Connection	Motor Power	Weight
	(lt/h)						
MPL-2.25-12	2,25	12	36	1,2	DN 8	0,37	20
MPL-4,5-12	4,5		72				
MPL-9-12	9		144				
MPL-22-12	22	10	72	4	DN 15		
MPL-44-12	44		144				
MPL-85-10	85		72				
MPL-120-07	120	7	72	8	DN 15		
MPL-170-07	170		144				
MPL-240-07	240		144				
MPL-315-05	315	5	144	8	DN 25		
MPL-400-05	400		144				
MPL-500-05	500		180				

PRODOZ MECHANICAL DIAPHRAGM TYPE METERING PUMPS

MPX SERIES



Mechanical actuated diaphragm
Power-off seal, no leakage
Compact design in simple structure
Heavy duty design with durable features

Capacities up to 1200 lt/hr
Pressures up to 10 bar
Accuracy $\pm 1\%$
Temperatures between $-10\text{ }^{\circ}\text{C}$ / $+40\text{ }^{\circ}\text{C}$
Max suction height 2 m
Standard electric motors of 220/380 V, 50 Hz

	MATERIALS		
Pump Head	SS	PTFE	PVC
Diaphragm	PTFE	PTFE	PTFE
Valve Seats	SS	PVDF	PVC
Valve Ball	CERAMIC	CERAMIC	CERAMIC

Manual stroke adjustment is standard.
Stroke actuator or digital controller is available as option.

Prodoz Model	Capacity	Max. Pressure	Pump Speed	Stroke Length	Pipe Connection	Motor Power	Weight
	(lt/h)	(bar)	(spm)	(mm)		(kW)	(kg)
MPX-82-10	82	10	36	12	DN 15	0,55	30
MPX-167-10	167		72				
MPX-237-10	237		102				
MPX-334-10	334		135				
MPX-410-10	410	7	180		DN 25	0,75	
MPX-460-07	460		135				
MPX-580-07	580		180				
MPX-656-3.5	656	3,5	102		DN 40		
MPX-940-3.5	940		135				
MPX-1200-3.5	1200		180				

PRODOZ
MECHANICAL DIAPHRAGM
TYPE METERING PUMPS

MPHD
SERIES

Hydraulic actuated diaphragm
Power –off seal, no leakage
Compact design in simple structure
Heavy duty design with durable features
Flow adjustment between 0-100 %

Capacities with single head up to 10.000 lt/hr
Pressures up to 250 bar
Accuracy ± %1
Temperatures between -100 C / +800 C
Max suction height 2 m
Standart electric motors of 220/380 V, 50 Hz
Integrated safety relief valve
limited auto compensation valve



Manual stroke adjustment
is standard.
Stroke actuator or digital
controller is available as option.

	MATERIALS		
Pump Head	SS	PTFE	PVC
Diaphragm	PTFE	PTFE	PTFE
Valves	SS	PVDF	PVC
Valve Seats	SS	PVDF	PVC
Valve Ball	CERAMIC	CERAMIC	CERAMIC

Options on request...

Diaphragm rupture detection system with double diaphragm.
Double or triple pump heads.
Threaded, flanged or tube connections
Ex-proof electric motor
Heated or cooled pump heads
HastalloyC or Alloy 20 pump head for aggressive liquids.

PRODOZ
MECHANICAL DIAPHRAGM
TYPE METERING PUMPS

DPC-1 DIGITAL DOSING PUMP CONTROLLER

- 1:1000 Turndown ratio
- 3,5" Touchpanel LCD screen
- Remote control with 4-20 mA signal input
- Modbus RTU communication protocol (Optional Profibus)
- Flowrate display in Lt/h on the screen
- Automatic flowrate adjustment when entered from touchpanel LCD screen
- Password protection for 7 (seven) different authorization level
- Remote on-off control with digital input
- Total and Instant flow indication on the screen
- Level input
- 1 Relay output for alarm or pump operation information
- Flowrate history with graph on the screen
- Pump start and stop time logging.
- Power input 220 V (monophase)



PRODOZ
MECHANICAL DIAPHRAGM
TYPE METERING PUMPS

EDP
SERIES



New design, tightness and long-life

Leak free, sealless liquid end for optimum flexibility and durability

Manual adjustment of both stroke length (%0-100) and frequency (% 0-100)

Manual control allows a combined 1:1000 turndown ratio resulting in accurate metering

Proportional Control is available by

* 4-20mA signal to adjust the frequency under remote control as standart

* Pulse-frequency to adjust the frequency under remote control (optional)

Manual air bleed valve on pump head

IP65 Protection Class

Plastic cover on control panel

100-240 VAC, 50-60 Hz

Discharge and suction hoses, footvalve/strainer assembly, ceramic weight, injection valve included.

Manual stroke adjustment
Level Input
4-20 mA signal control
Remote on/off control
is standard.

Materials

	PVC	PVDF	SS304	SS316
Pump Head	PVC	PVDF	SS304	SS316
Diaphragm	PTFE	PTFE	PTFE	PTFE
Valves	PVC	PVDF	SS304	SS316
Balls	Ceramic	Ceramic	Ceramic	Ceramic

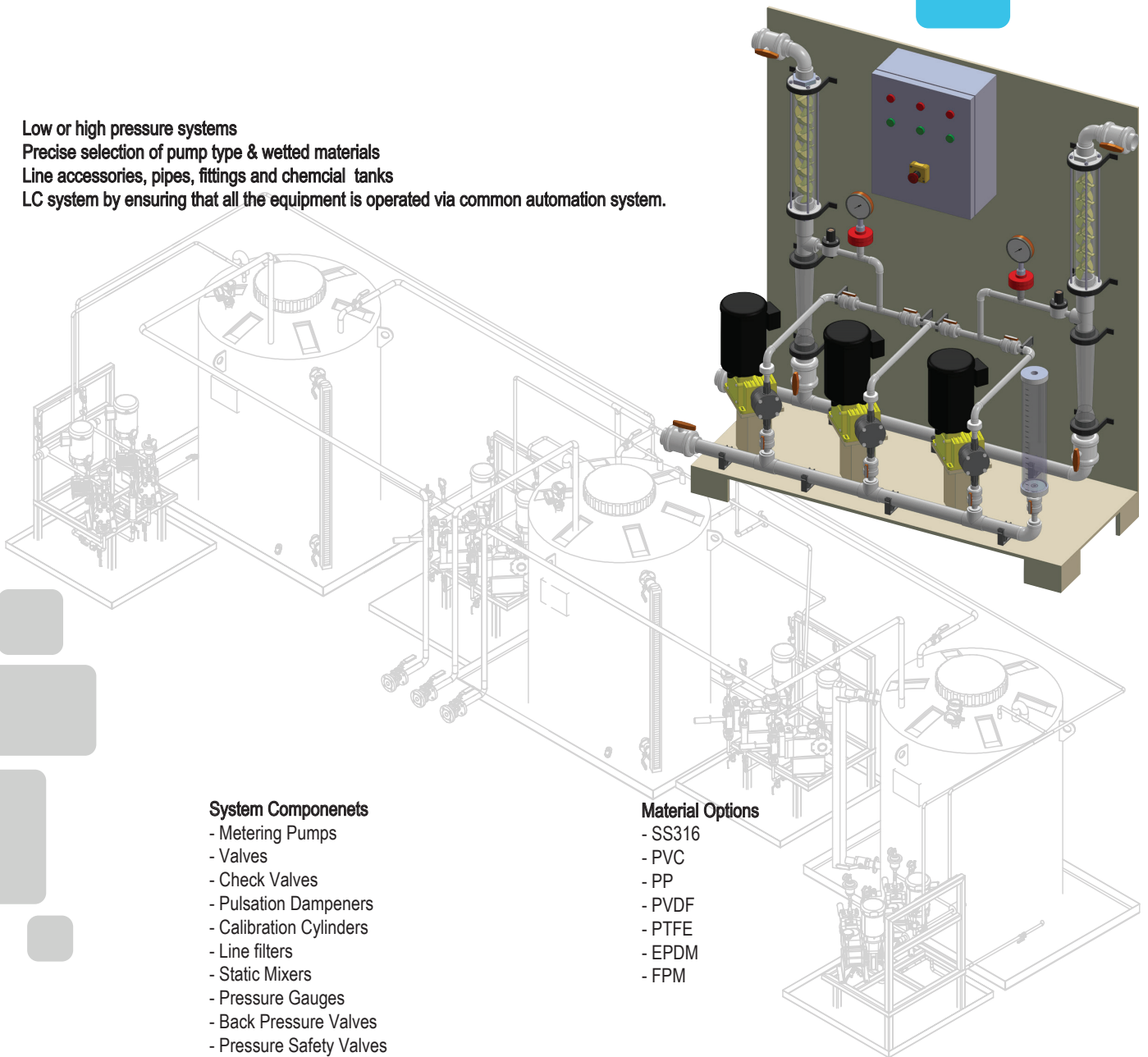
Type	Capacity (L/H)	Pressure (Bar)	Connection Size	Average input Power (W)	Weight (Kg)
EDPS 2.5/10	2.5	10	O.D : 9,5 mm I.D : 4,0 mm PE tubing	22	4,0
EDPS 1.5/12	1.5	12			
EDPS 1/20	1.0	20			
EDPS 15/2	15	2	O.D : 9,5 mm I.D : 5,5 mm PE tubing	40	5,0
EDPS 11/2	11	2			
EDPS 5/5	5	5			
EDPS 3.5/7	3.5	7			
EDPM 2.5/20	2.5	20	O.D : 9,5 mm I.D : 6,5 mm PE tubing	40	5,0
EDPM 5/10	5	10			
EDPM 10/5	10	5			
EDPL 15/3.5	15	3.5			
EDPL 25/2.5	25	2.5			

*Given capacities are valid for water like liquids (d : 1gr/cm³ – 1 cps) and can vary according to different chemicals and process conditions.

PRODOZ
MECHANICAL DIAPHRAGM
TYPE METERING PUMPS

SPS CHEMICAL METERING SKID SYSTEMS

Low or high pressure systems
Precise selection of pump type & wetted materials
Line accessories, pipes, fittings and chemical tanks
LC system by ensuring that all the equipment is operated via common automation system.



System Componentets

- Metering Pumps
- Valves
- Check Valves
- Pulsation Dampeners
- Calibration Cylinders
- Line filters
- Static Mixers
- Pressure Gauges
- Back Pressure Valves
- Pressure Safety Valves
- Temperature, Flow, Pressure Sensors
- Chemical Tanks
- Level Instruments

Material Options

- SS316
- PVC
- PP
- PVDF
- PTFE
- EPDM
- FPM



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