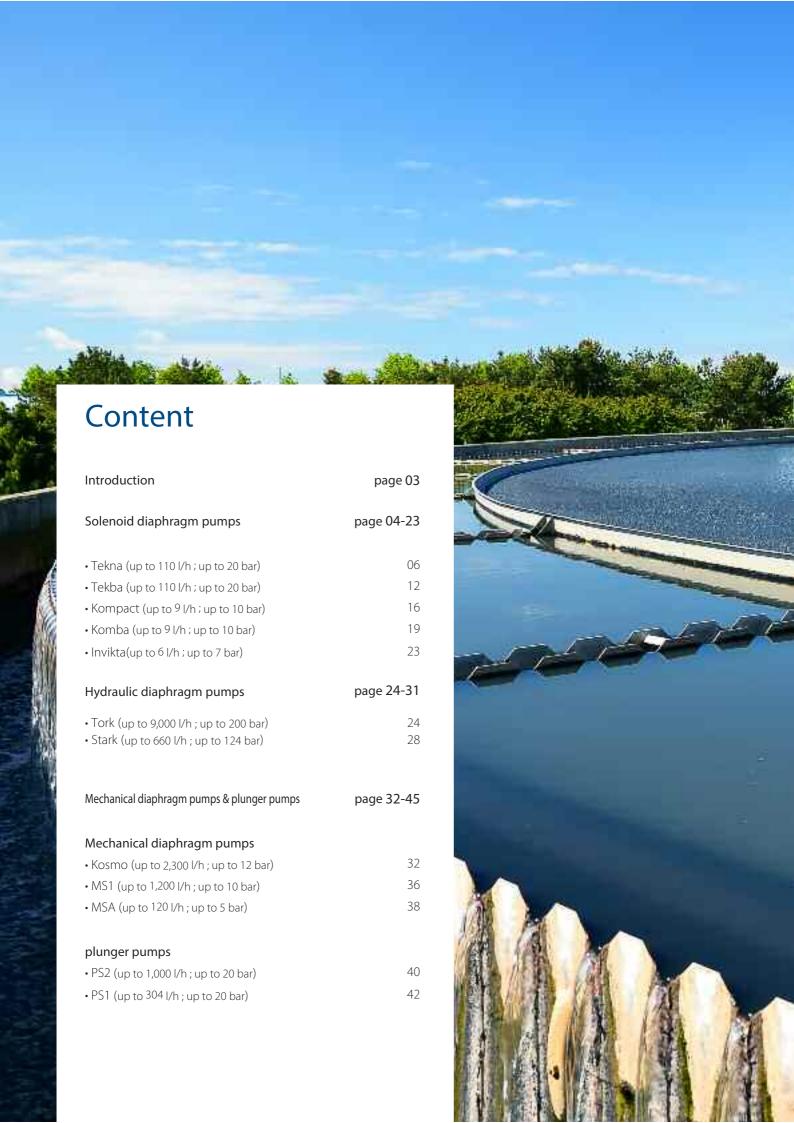


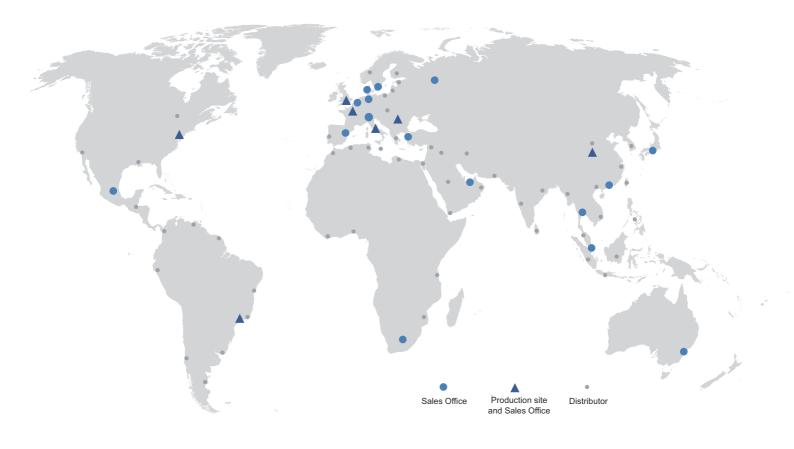
Solutions for

Dosing & Liquid Transfer



Your Choice,
Our Commitment





A Worldwide Group at your service

Globally Present, Locally Active

Our Global presence ensures that we can support our Customers wherever they are. Supported by teams in over 20 countries, as well as by our accredited Partner Distributor network, we ensure professional, local customer support in over 120 countries, with the added benefit of rapid delivery of goods to meet your needs.

All this backed up and supported by a world-class team of Technical Customer Service, able to provide all the back up or technical support needed. With ISO certificated production sites in Europe, the Americas and Asia, we are close to our customers and fully compliant with all local norms both in terms of our product designs as much as our production facilities.

How SEKO works for You

From the spark of an idea, through to the delivery of a solution, SEKO is with you all the way! SEKO supports its customers in every phase of a project, from the inception of an idea or request, through design and testing to launch and installation. Our in-house research, design and development teams work closely with the local teams, drawing on customer and market inputs. Then using state-of-the-art technologies to optimize costs and using our own specifically designed test benches to ensure rigorous, robust testing, we ensure a quality solution is delivered quickly to market.

No matter which processes and applications are planned SEKO has a solution in the cleaning and hygiene of kitchens and laundries and surfaces of all types in applications like Offices and Restaurants, Hospitals and Hotels, Retailers and Schools, Car Washes and Swimming Pools, Cooling Towers, Energy, Food & Beverage, Water & Gas Utilities Potable and Waste Water Treatment.

1 Partnership Philosophy

Being a privately-owned business means that we are here for the long term and can plan projects with and for our Customers, where both parties benefit. It means we can rapidly take decisions to invest our resources to ensure our optimum solutions are delivered

Your Business, Our Solutions

Our extensive product range represents a unique combination of design, development and implementation know how. With a wide and ever evolving range of products and ancillaries, we can offer specific and comprehensive solutions for a variety of industrial applications. Our solutions are conceived to fit seamlessly into your operation, optimizing the processes and applications



SEKO's 3 business units, Cleaning & Hygiene, Water & Industry and Industrial Processes puts us in a unique position to be able to respond to the widest range of business needs, with a broad range that allows you the Customer to deal with just one company, simple.

Pump Solutions for Liquid Transfer

An ever-evolving set of solutions to move liquids safely and securely SEKO designs and develops its own electromechanical and motor driven pumps, which include reciprocating positive displacement pumps, providing the greatest possible reliability and accuracy across many applications including pumping supercritical fluids.

Every pump we design and produce shares common strengths: whether your needs include low maintenance costs, or long service life for diaphragms or perhaps pumps built to meet the exacting demands of the oil and gas, food and beverage or water industries.

Exploiting our market experience, we design, develop, test and manufacture products that ensure all our solutions and systems deliver:

From managing the total cost of ownership of a system, whilst guaranteeing accurate measurement of critical water parameters from our Kontrol Series, through to chemically compatible raw materials, chosen for their robustness and durability in our manufacturing process, exemplified by our 5-year guarantee on our diaphragms, to our ATEX certificated pumps, SEKO is offers an optimal result, providing peace of mind and brand security.

Safety and Reliability

The safety of customers, installers and operators is paramount, requiring the very best in terms of design and features. From the IP65 class enclosures of our dosing systems and controllers through to the precise choice of materials in our pumps used to ensure full chemical compatibility and robustness over time, safety is at the forefront of our design ethos. Reliability drives good safety, and all SEKO's products are fully tested prior to leaving our warehouse.

As a global company, we are attuned to the differing needs of individual markets. This is why, when we design a new product, we ensure that installation is simple that maintenance is straightforward, that we use uniform programming language solutions that are intuitive and easy to understand, in whatever language you speak.

Operational Efficiency

From the affordability of the range of solutions, through to thoughtful design elements such as an adjustable stroke length, single liquid end options, stabilised power supply, multiple model outputs in one pump footprint, designed for base or wall mounting, and a common programming language, SEKO's pumps offer an exceptional mix of affordability and high performance across solenoid and electromechanical pump applications.

Tekna Series

Clever

Just 5 Models, Just PVDF, All functions in one pump

- 5 models that cover 0,4 to 110 l/h with an output pressure up to 20 Bar
- 1 Casing allows skids to be pre-constructed, as the fixing points remain constant, and the pumps can be selected on confirmation of the dosing flow
- **Inventory Reduction Reduce spares stock holding**



Compatible

PVDF pump head and ceramic ball valve as standard

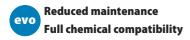
- **PVDF** is suitable for almost all chemical used in the Industrial, Waste Water Treatment and potable Water applications
- The use of **Ceramic balls** as standard improves the pumping reliability and the chemical compatibility of the whole liquid end
- evo Full chemical compatibility



Reliable

Long life diaphragm tested to give 5 years working life

- The advanced design and manufacturing process allows the diaphragm to have a unique life expectancy
- Made of pure solid PTFE, the diaphragm is compatible with most chemicals
- The diaphragm has been tested over a period of 5 years giving superior results
- Routine diaphragm replacement is no longer a requirement





The **Evolution** of solenoid dosing pumps

A new concept of programming menu. Once a function is selected, the pump displays only the parameters that are associated with the specific function

PVDF pump head and ceramic ball valve as standard

Stabilized Multi Power Supply 100÷240 Vac 50/60 Hz with reduced consumption



Steady Dosing Performance

Stabilized Multi Power Supply 100÷240 Vac 50/60 Hz with reduced consumption

Reduced power consumption as the solenoid only draws the required power to activate the pump, based on the working conditions



Stable dosing performance: improve pump efficiency as performance is not affected by power supply fluctuations

Reduce inventory holding



Intuitive programming

A new concept of programming menu

- Programming menu are self explanatory and available in 5 languages
- **Intelligent Display**, once a function is selected the pump will only display the parameters to set, which are linked to the selected function





Versions

Tekna Analogue version







Costant dosage

Analogue dosing pump with constant flow rate manually adjustable by control dial on the front panel, two frequency range (0÷20% or 0÷100%), Power-ON led indicator.



Costant dosage

Analogue dosing pump with constant flow rate manually adjustable by control dial on the front panel, two frequency range (0÷20% or 0÷100%), Power-ON led indicator and level control input.

APG Proportional dosage

Analogue dosing pump with constant flow rate manually adjustable, proportional flow rate according to an external analogue (4÷20 mA) or digital pulse signal (e.g. from water meter).

- Control dial (percentage and "n" value in multiplication mode)
- 6 position adjustable switch:
 - 3 in division mode (1, 4, 10 = n)
 - 1 in multiplication mode (n=1)
 - 1 for proportional 4÷20 mA signal
 - 1 for constant functionality
- "pacing" function adjustable by dip switch



Tekna Digital version

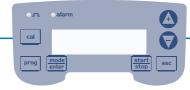




TPG Proportional dosage

Digital dosing pump with constant flow rate manually adjustable, proportional flow rate according to an external analog (4÷20 mA) or digital pulse signal (e.g. from water meter).

■ Timer function, ppm dosing, statistics, password and On/Off input (remote switch).



TPR Proportional dosage

Digital dosing pump with pH/Redox control meter built in.

- Digital interface for constant or proportional dosing, depending on the measured pH or Rx value
- PT100 probe input for thermal compensation
- Repetition alarm relay
- Input On-Off for remote control
- 4÷20 mA output for measure transmission

Installation

The pumps are supplied

indispensable accessories for

filter, Screws, Fixing bracket, Injection valve, 2m PE tube

(delivery), 4 m PVC tube

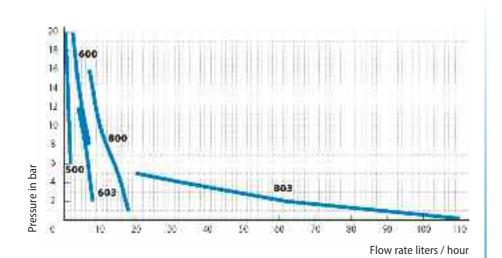
their correct installation as: Foot

(suction), Seal in FPM and EPDM

complete with the

Kit

Flow Rate and Dimensional Drawings



Wall-mounted bracket



Injection valve (PVC) (G3/8", G1/2")



Foot valve (PVC)



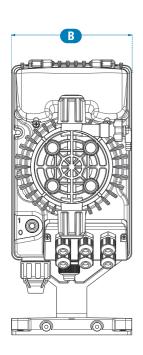
PVC Suction tube

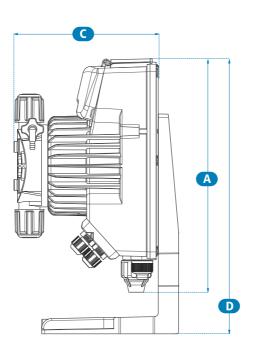


PE Delivery tube



Vertical mounting bracket





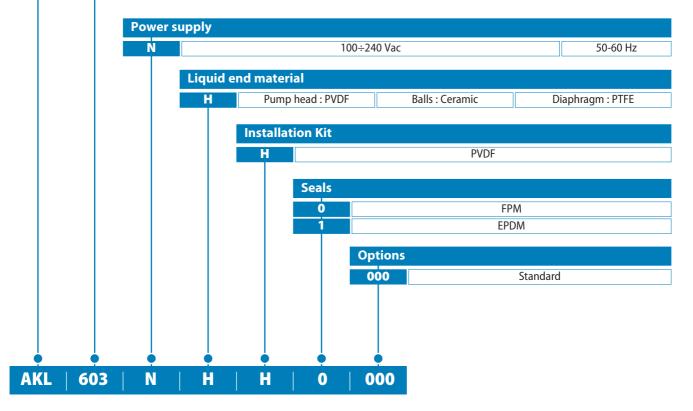
DIMENSIONS [mm]

Model	500 600 603 800	803		
A (Height)	231			
B (Width)	119			
C (Depth)	145	149		
D (Max Height)	257			

Pumps Identification

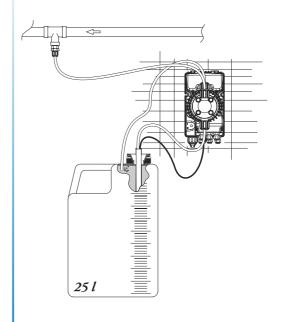
Version		
AKL	Analogue	Analogue dosing pump with constant flow rate manually adjustable and level control input
TPG	PG Digital	Digital dosing pump with constant flow rate manually adjustable, with proportional flow rate according to an external analog (4÷20 mA) or digital signal (water meter)
TPR		Digital dosing pump with pH/Redox control meter built in

M	odel	Pressure [bar]	Flow rate [L/h]	Stroke capacity [cc/stroke]	Ø Connections IN / OUT [mm]	Frequency max [stroke/min]	Consumption [W]	Weight [Kg]	Carton size (LxWxH)
		20	0,4	0,06				3,4	
	500	16	0,8	0,11	4 / 6 suc.	120	15		
•		10	1,2	0,16	4 / 7 dis.	120	15	5,4	
		6	1,5	0,21					
		20	2,5	0,35					
	500	18	3	0,42	4 / 6 suc.	120	20	3,9	285x185x240 (mm)
`	000	14	4,2	0,58	4 / 7 dis.	120	20	5,5	
	_	8	7	0,97					
		12	4	0,42	4/6	160	20	3,4	
	503	10	5	0,52					
,	JU3	8	6	0,63					
		2	8	0,83					
		16	7	0,38			40	4,4	
	300	10	10	0,55	4/6	300			
· ·	300	5	15	0,83	470	300	40		
		1	18	1,00					
		5	20	1,11					
	303	4	32	1,78	8 / 12	300	40	4,4	
•	303	2	62	3,44	0 / 12	300	70	7,4	
		0,1	110	6,11					

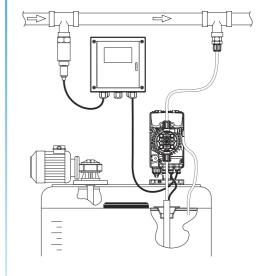


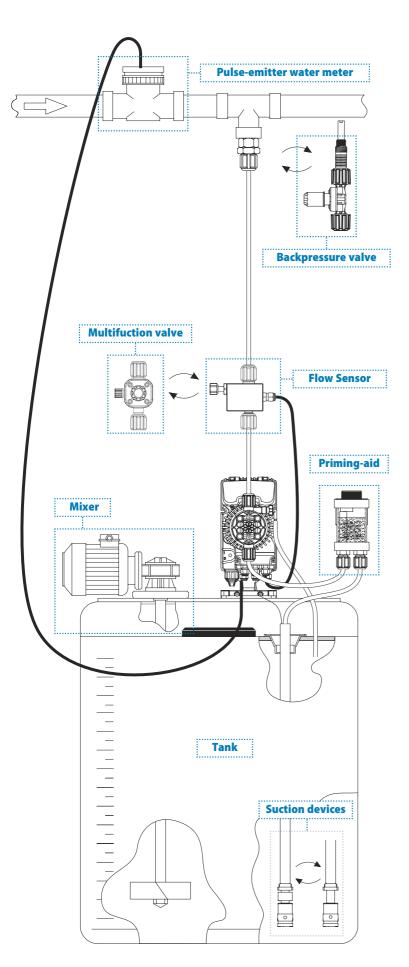
Typical Installation

Degassing head installation



With control instrument





Tekba Series

Solenoid Dosing Pump

Tekba is a digital solenoid dosing pump, operating with a micro-processor to manage the dosing. it is featured by simple and reliable operation, including four models: EMS, EML, EMC and EMM.

Features:

Max pressure: 20bar; Max flow rate: 110L/H Pump head: PVDF

Applications:

Urban water treatment&wastewater treatment. Clo2 dosing, RO, food, drink and pharmacy.



Compatible

PVDF pump head and ceramic ball valve as standard

- PVDF is suitable for almost all chemical used in the Industrial, Waste Water Treatment and potable Water applications
- The use of **Ceramic balls** as standard improves the pumping reliability and the chemical compatibility of the whole liquid end



Reliable

Long life diaphragm tested to give 5 years working life

- The advanced design and manufacturing process allows the diaphragm to have a unique life expectancy
- Made of pure solid PTFE, the diaphragm is compatible with most chemicals
- The diaphragm has been tested over a period of 5 years giving superior results
- Routine diaphragm replacement is no longer a requirement



Steady Dosing Performance

Stabilized Multi Power Supply 100÷240 Vac 50/60 Hz with reduced consumption

PTFE

Dosing model

The flow rate is adjustable manually or automatically (pulse or 4-20mA input) The pump head has a manual priming valve.

Liquid end

Diaphragm

Pump head **PVDF** Ball Ceramic Seal FPM/EPDM

Installation

Horizontally amounted Wall-amounted(optional)



EMS Manual control

Flow rate manually adjustable by control dial on the front panel, Power-on LED indicator, with indication of frequency percentage (P%) and stroke number (F)



Manual control with level control input

Flow rate manually adjustable by control dial on the front panel, Power-on LED indicator, with indication of frequency percentage (P%) and stroke number (F), level control input



Automatic control (digital pulse signal input)

With operation status indication, level control input, have two dosing models:

■ **Constant** The pump doses the rate selected with the button

■ **Proportional** The pump doses proportionally to the digital pulse input signal



EMM Automatic control (4-20mA input)

With operation status indication, level control input, have two dosing models:

■ Constant The pump doses the rate selected with the bu	ıtton
--	-------

■ **Proportional** The pump doses proportionally to 4-20mA current signal input

603

EML

N

Pumps identification

		Flo	ow rate by mar	nual control						
			ow rate by mar	nual control, with	level control inp	ut				
	Digita	Flo	ow rate by man th level contro	ual control Flow r	ate by automatic	control: digital pu	lse signal input	(water me	ter pulse signal)	
			ow rate by mai out	nual control Flow	rate by automat	ic control: 4-20m	nA current signa	l input, w	rith level contro	
	Model	Pressur [bar]	Flow rate	Stroke capacity [cc/stroke]	Ø Connections IN / OUT [mm]	Frequency max [stroke/min]	Consumption [W]	Weight [Kg]	Carton size (LxWxH	
ĺ		20	2.5	0.35						
	600	18	3	0.42	4/6 suc	120	20	3.9		
	600	600	14	4.2	0.58	4 / 7 dis	120	20	3.9	
		8	7	0.97						
		12	4	0.42			20	3.4		
	603	10	5	0.52	4/6	160				
	003	8	6	0.63		100				
	2	8	0.83					285×250×21		
		16	7	0.38	4/6	300	40	4.4	mm	
	800	10	10	0.55						
		5	15	0.83						
		1	18	1.00						
		5	20	1.11		300	40	4.4		
	803	2	32 62	3.44	8 / 12					
ı		0.1	110	6.11						
			length adju	JI.						
		SHOKE		istillelit						
					Sir	nale(frequency)				
		N				ngle(frequency)	ıth)			
						ngle(frequency) e(frequency+leng	ŋth)			
		N	Power su	ıpply		e(frequency+leng				
		N		ıpply						
		N	Power su	ipply Liquid end n	Double	e(frequency+leng				
		N	Power su	Liquid end n	Double	e(frequency+leng		Diaph	nragm: PTFE	
		N	Power su	Liquid end n H P	Double naterial Pump head: PVDF	e(frequency+leng	eramic	Diaph	nragm: PTFE	
		N	Power su	Liquid end n H P	Double naterial Pump head: PVDF	e(frequency+leng	:0/60Hz	Diaph	nragm: PTFE	
		N	Power su	Liquid end n H P	Double naterial Pump head: PVDF	e(frequency+leng	eramic	Diaph	nragm: PTFE	
		N	Power su	Liquid end n H P	Double naterial Pump head: PVDF	e(frequency+leng	eramic		nragm: PTFE	
		N	Power su	Liquid end n H P	Double naterial Pump head: PVDF stallation kit P Seals	e(frequency+leng	eramic PVDF	М	nragm: PTFE	
		N	Power su	Liquid end n H P	Double Pump head: PVDF Stallation kit P Seals 0	e(frequency+leng	eramic PVDF FPN	М	nragm: PTFE	

H

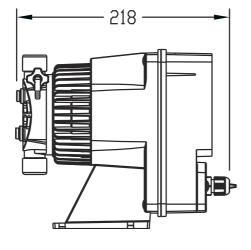
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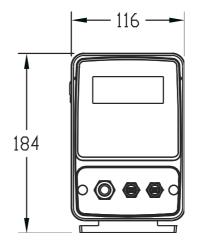
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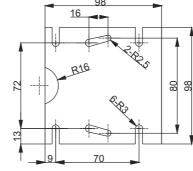
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Technical features

Dimensional drawing

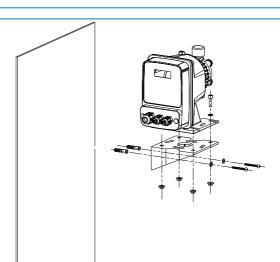






Wall-mounted(optional)





Installation kit

The pumps are supplied complete with the indispensable accessories for their correct installation as: Foot filter, injection valve, PE tube (delivery), PVC tube (suction).



Suction tube (PVC,4m)



Delivery tube (PE,2m)



Injection valve(PVDF) (G3/8"and G1/2")



Foot valve(PVDF)

Kompact Series

Kompact is a simple solenoid dosing pump, operating with a micro-processor to manage the dosing.

Its external enclosure has an IP65, which guarantees a protection versus splashing water and aggressive environments.





Dosing Mode

The pump head has a manual priming valve.

The flow rate is manually or automatically (by signal input) adjustable from 0 (pump stop) to 100% of the max flow rate. Moreover it is equipped with the low level alarm to stop or not the pump.

Pumps Head

BODY PVDF BALL VALVES Ceramic **SEAT VALVE** FPM/EPDM PTFF **DIAPHRAGM**

The parts in contact with the liquid have been chosen in order to guarantee perfect compatibility with most chemical normally in use.

Long life diaphragm



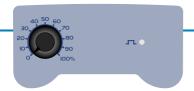


- Made of pure solid PTFE, the diaphragm is compatible with most chemicals
- The diaphragm has been tested over a period of 5 years giving superior results
- Routine diaphragm replacement is no longer a requirement

Wall-mounted

Kompact pump can be fixed on wall by fixing bracket provide with the pump or top of drums by the optional foot fixing bracket.

Kompact Analogue version



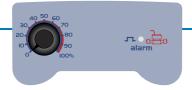
AMS Manual control

Flow rate manually adjustable by control dial on the front panel, Power-on LED indicator



AML | Manual control with level control input

Flow rate manually adjustable by control dial on the front panel, Power-on LED indicator, levelcontrol input, with two frequencies selection: 0-20% or 0-100%



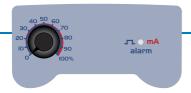
Automatic control (digital pulse signal input)

Power-on LED indicator, with level control input, have two dosing models:

- **Constant**(switch in position C)
 - The pump doses the rate selected with the knob
- **Proportional** 1: 1(switch in position P)

The pump doses proportionally to the digital pulse

signal input



AMM Automatic control (4-20mA input)

Power-on LED indicator, with level control input, have two dosing models:

- **Constant**(switch in position C)
- The pump doses the rate selected with the knob
- **Proportional**(switch in position P)
- The pump doses proportionally to 4-20mA current signal

input

Installation Kit

The pumps are supplied complete with the indispensable accessories for their correct installation as:

Foot filter, Screws, Fixing bracket, Injection valve, 2m PE tube (delivery), 4 m PVC tube (suction), Seal in FPM and EPDM



Wall-mounted bracket







PVC Suction tube

PE Delivery tube



Injection valve (PVC) (G3/8", G1/2")



vertical-mounted bracket

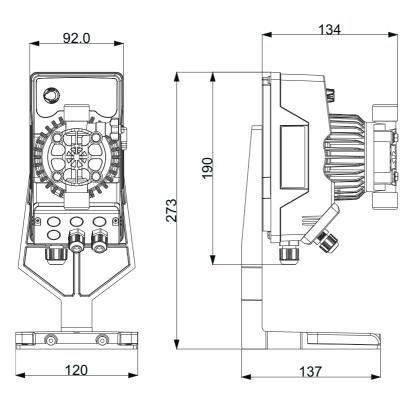




Technical features

Model	Pressure [bar]	Flow rate [l/h]	Stroke capacity [cc/stroke]	Ø Connections IN / OUT [mm]		ency max ke/min]	Weight [Kg]	Carton size (LxWxH)
200	10 8 2	3 5 9	0.31 0.52 0.93	4/6	1	160	2.4	285x185x180
201	7	1	0.10	4/6	1	160	2.4	285x185x180
Liquid end	Type P	Pı	ump head	Ball Ceramic	FP	Seal PM/EPDM		Diaphragm PTFE
Enclosure	Material Protection class PP IP65		Power supply		AMS: 240Vac,50Hz;AML/AMC/AMM:100-240Vac,50/60Hz			

DIMENSIONAL DRAWINGS



TECHNICAL FEATURES

FLOW RATES 5 l/h @ 8 bar 3 l/h @ 10 bar

9 l/h @ 2 bar

POWER SUPPLY AMS:230Vac,

50Hz;AML/AMM/AMM: 100-240Vac,50/60Hz

STROKE RATE 160 strokes/minute **ENCLOSURE** PP protection

degree IP65

INSTALLATION KIT Included

Komba Series

Solenoid Dosing pump

Komba is a simple solenoid dosing pump, operating with a micro-processor to manage the dosing, it is easy to operate with stable flow rate. It has four models: DMS, DML, DMC and DMM.

Main features:

Max pressure: 10bar; Max flow rate: 9L/H Pump head: PVDF

Applications:

Urban water treatment and waste water treatment, dosing of chlorine dioxide, reverse osmosis, food, beverage and pharmacy,etc.



Compatible

PVDF pump head and ceramic ball valve as standard

- PVDF is suitable for almost all chemical used in the Industrial, Waste Water Treatment and potable Water applications
- The use of **Ceramic balls** as standard improves the pumping reliability and the chemical compatibility of the whole liquid end



Reliable

Long life diaphragm tested to give 5 years working life

- The advanced design and manufacturing process allows the diaphragm to have a unique life expectancy
- Made of pure solid PTFE, the diaphragm is compatible with most chemicals
- The diaphragm has been tested over a period of 5 years giving superior results
- Routine diaphragm replacement is no longer a requirement

Dosing model

The flow rate is adjustable manually or automatically (pulse or 4-20mA input);

DML, DMC and DMM have level control input;

The pump head has a manual priming valve.

Liquid end

Pump head **PVDF** Ball Ceramic

FPM/EPDM Seal

Diaphragm **PTFE**

Installation

Horizontally amounted Wall-amounted(optional)

Komba Series



Manual control

Flow rate manually adjustable by control dial on the front panel, Power-on LED indicator, with indication of frequency percentage (P%) and stroke number (F)



Manual control with level control input

Flow rate manually adjustable by control dial on the front panel, Power-on LED indicator, with indication of frequency percentage (P%) and stroke number(F), level control input



Automatic control(digital pulse signal input)

With operation status indication, level control input, have two dosing models:

■ **Constant** The pump doses the rate selected with the button

■ **Propotional** The pump doses proportionally to the digital input signal



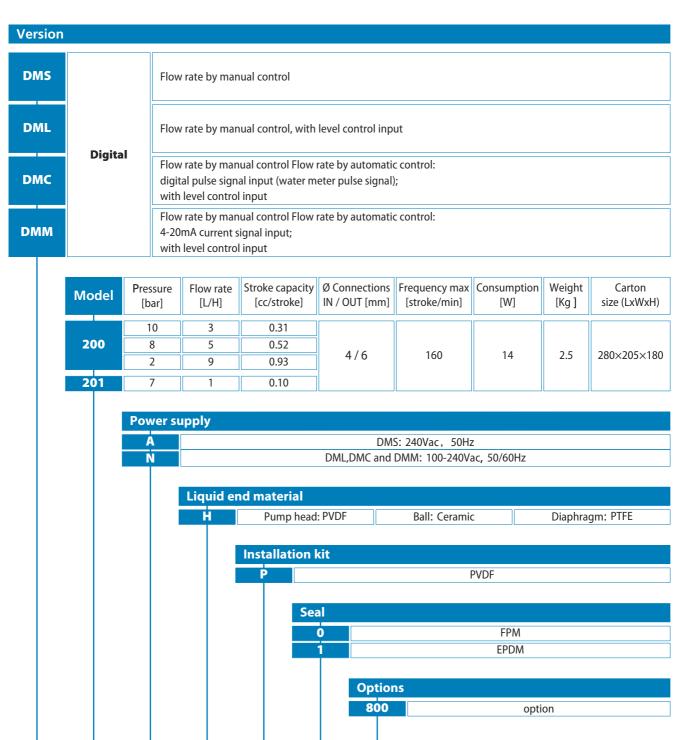
Automatic control (4-20mA input)

With operation status indication, level control input, have two dosing models::

■ **Constant** The pump doses the rate selected with the button

■ **Propotional** The pump doses proportionally to 4-20mA current signal

Pumps identification



DML

200

N

Н

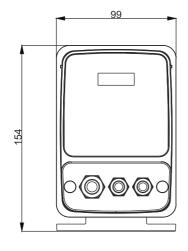
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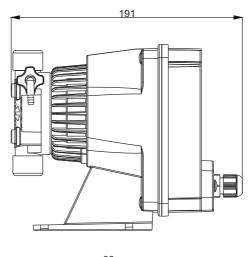
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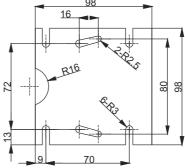
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Technical features

Dimensional drawing

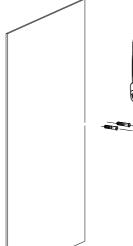


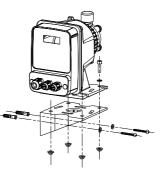




Wall-amounted(optional)







Installation kit

The pumps are supplied complete with the indispensable accessories for their correct installation as: Foot filter, injection valve, PE tube (delivery), PVC tube (suction)







Delivery tube (PE,2m)(Ø 4×6)



Injection(PVDF) (G3/8"and G1/2")



Invikta Series

Invikta is a simple yet reliable series of micro-processor based solenoid dosing pumps.

Ideal applications are: OEMs, Swimming Pools, Car Wash, Cooling Towers, RO Systems and many other applications.



KCL

Costant dosage

Analog dosing pump with costant flow rate, manually adjustable by control dial on the front panel, with level control input. Power-ON led indicator.

Technical specifications

Liquid end material						
Head Type	VE VF					
Body Pump	PVC					
Balls	Cera	mic				
Seals	EPDM FPM					
Diaphragm	PTFE					

Model		635		
Pressure [bar]	7	5	2	
Flow rate [I/h]	3	5	6	
Stroke/min	140			
cc/stroke	0.36	0.60	0.71	
Ø Connections IN / OUT [mm]	4/6			
Power Consumption	100-240Vac, 50/60Hz, 12W			
Weight [Kg]	2,4			
Carton size (LxWxH) [mm]	28	35x185x18	30	

DIMENSIONAL DRAWINGS

116.0

Installation Kit



Wall-mounted bracket



PVC Suction tube



PE Delivery tube



Injection valve (PVC) (G3/8", G1/2")



Foot valve (PVC)

Hydraulic diaphragm pump

Tork Series

Hydraulic Double Diaphragm Metering pumps

A line hydraulic diaphragm metering pumps designed according to the API 675 Standards, It includes three subseries: YN, TN and HN.

■ FLOW RATE	up to 9000 l/h
MAX PRESSURE	up 200 bar
■ FLUID TEMPERATURE	-10-70°C
CONTACT MATERIALS	SS316L; PP; PVDF
■ COMPLIANCE	STANDARD ACCORDING TO API 675



Tork series hydraulic diaphragm dosing pumps are designed in compliance with API 675 Standards; the conformity to the API Standards implies a "heavy duty" design, high safety and severe controls of the performances during the tests. The broad variety of heads execution offers a wide selection of dosing pumps to cover practically any application needs. In addition the full compliance with the ATEX European Directive gives the possibility to install these pumps in classified areas too.

Main characteristics:

- Low noise integral gearbox, worm type, oil bath lubricated
- Reduced energy consumption based on low friction rolling bearings design
- Micrometric stroke length adjustment both manually and/or automatically actuated.
- Automatic stroke length variation by electrical servomotor or frequency converter
- Linearity and repeatability in compliance with API 675 Standards.
- Easy "on field" installation of electrical servomotor on manual stroke adjustment mechanism.
- acan be equipped with explosive-proof motor and frequency conversion motor.



Venting system

Aside from guaranteeing automatic venting during operation, the venting system also facilitates the pump priming by favouring the air purge by means of a manual action.



Pressure relief valve

Protects the pump against unexpected overpressure.



Cartridge valves

In order to ensure maximum dosing precision, even for small flow rates, double and triple ball configurations are available with high precision seats.

The metal gaskets for the SS316L stainless steel heads, and the FPM gaskets for those in plastic, guarantee maximum compatibility.

YN, TN, HN: Hydraulic double diaphragm heads

The ideal solution for applications requiring high levels of operational safety and reliability

- Zero leakage; can dose toxic, corrosive and other hazardous liquids, for which the absence of leaks is fundamental
- Double diaphragm, double protection; if one of the two diaphragms is damaged, the protection system immediately signals the anomaly; the pump is nevertheless permitted to continue to operate, thereby preventing immediate downtime
- Flexibility of use; the PTFE diaphragms are compatible with a vast assortment of liquids
- Solid suspensions; the diaphragm's proper positioning is ensured by a mechanical system which does not require the use of perforated shields on the process side, thereby allowing for liquids containing solid suspensions to be pumped.
- Construction materials; the parts in the standard configuration that make contact with the liquid are made from AISI 316L stainless steel, PP and PVDF.

Mechanical refilling system

Maintains a constant level of the hydraulic fluid, thereby guaranteeing maximum precision and repeatability. Keeping also under control the deformation of diaphragm thereby increasing its duration.



Double diaphragm with rupture detector

In the event of a rupture of one of the two diaphragms, the detector activates either a local visual alarm or a pressure switch. The second diaphragms ensure the continued operation of the pump. This allows for scheduled maintenance.



Flow Rate adjustment

- Easy to handle knob with high visibility nonius for the best flow adjustment.
- Optionally automatic variation by electrical actuators **AKTUA**.

The electrical actuators **AKTUA** were designed to replace the manual adjusting device of the flow, on the pump, with an automatic system, remotely controllable, which acts on the length of the stroke of the pump, directly in the field.

Internal display 4-digit, 7-segment display.

Calibration can also be executed with system running.

 Available in standard version for installation in areas not classified, or ATEX compliant for installation in hazardous areas.

Applications Water treatment and

Industrial sectors

- Municipalities
- Wastewater
- Chemical
- Food & Beverages
- Detergents
- Power Generation
- Environment
- Petrochemical
- Pharmaceutical
- Paper
- Textile

Accessories

- Flow rate calibration pots
- Pulsation dampers
- Safety valves
- Back pressure valves

Options

- Flanged connections
- Heated or cooled heads
- Transmission of the diaphragm rupture signal



Tork Y NO

LIQUID END MATERIAL		PP/PVC					
PLUNGER	STROKE	MAX. SPEED	FLOW RATE	PRESSURE	CONNECTION	MOTOR	
DIAMETER	LENGHT	Strokes/min	L/h	Bar	Suc/Dis (BSPP)	kW	
12		47	2,8				
15		70	6,5				
25	10	93	25	12	1/2" F	0,18	
35		93	49				
33		186	97.3				
LIQUID END MATE	RIAL	PVDF					
12		47	2,8	20	1/2" F	0,18	
15		70	6,5				
25	10	93	25				
35		93	49				
33		186	97.3	12			
LIQUID END MATE	RIAL	SS316L					
12		47	2,7	40			
15		70	6,5		1/4" F		
25	10	93	25	39	1/-1	0,18	
35		95	49	19			
33		186	97.3	12	1/2" F		

Nexa Y N1

LIQUID END MATE	RIAL	PP/PVC				
PLUNGER	STROKE	MAX. SPEED	FLOW RATE	PRESSURE	CONNECTION	MOTOR
DIAMETER	LENGHT	Strokes/min	L/h	Bar	Suc/Dis (BSPP)	kW
30		117	113		1/2" F	
50		93	254		1/2 F	1,10
	25	95	501	12		1,10
70	23	117	629	12	1" F	
70		186	996		1 1	2,20
		235	1258			2,20
LIQUID END MATE	RIAL	PVDF				
30		117	111	12	1/2" F	1,10
50	25	93	254			
		93	501			
70		117	629		1" F	
70		186	996			2,20
		235	1258			2,20
LIQUID END MATE	RIAL	SS316L				
30		117	106	40	1/2" F	
50		93	254	24	3/4" F	1,10
	25	73	501			1,10
70	23	117	629	12	1" F	
,,,		186	996		' '	2,20
		235	1258			2,20

Tork Y N2

LIQUID END MATE	RIAL	PP/PVC				
PLUNGER	STROKE	MAX. SPEED	FLOW RATE	PRESSURE	CONNECTION	MOTOR
DIAMETER	LENGHT	Strokes/min	L/h	Bar	Suc/Dis (BSPP)	kW
70		117	865	12	1" F	
90	35	93	1200	11		2,20
120	33	93	2065	7	1 1/2" F	2,20
120		117	2610	6		
LIQUID END MATE	RIAL	PVDF				
70		117	865	20	1" F	2,20
90	35	93	1200	11		
120		95	2065	7		2,20
120		117	2610	6		
LIQUID END MATE	RIAL	SS316L				
70		117	865	20	1" F	
90	35	93	1200	11	2" F	2,20
120	33	73	2065	7	Z F	2,20
120		117	2610	6	1 1/2" F	

Technical Features

Tork Y N3

LIQUID END MA	TERIAL	SS316L				
PLUNGER	STROKE	MAX. SPEED	FLOW RATE	PRESSURE	CONNECTION	MOTOR
DIAMETER	LENGHT	Strokes/min	L/h	Bar	Suc/Dis (BSPP)	kW
130	50	78	2600	10	3" F	5,5
130	30	117	3900	10	3 1	7,5

Tork Y N4

LIQUID END MA	TERIAL	SS316L				
PLUNGER	STROKE	MAX. SPEED	FLOW RATE	PRESSURE	CONNECTION	MOTOR
DIAMETER	LENGHT	Strokes/min	L/h	Bar	Suc/Dis (BSPP)	kW
130	70	117	6000	10	3" F	18,5
130	70	145	7500	10	3 F	10,3

high pressure up to 120 bar

Tork TN

LIQUID E	ND MATERIAL	SS316	5L				
TYPE	PLUNGER	STROKE	MAX. SPEED	FLOW RATE	PRESSURE	CONNECTION	MOTOR
ITPE	DIAMETER	LENGHT	Strokes/min	L/h	Bar	Suc/Dis (BSPP)	kW
NO	12	10	93	4,5	120	1/4" F	0,18
140	20	10	70	11,7	57	1/4 1	0,18
	15			26,5	120	1/4" F	1,10
N1	20	25	117	47	120	1/4 Γ	
	30			99	68	1/2" F	
	20		117	70	120	1/4" F	
N2	25	35	117	94	120	1/2" F	2.20
142	35	33	93	162	80	3/4" F	2,20
	33		117	202	60	60 3/4 F	

high pressure up to 120 bar

Tork HN

LIQUID E	ND MATERIAL	55316)L				
TYPE	PLUNGER	STROKE	MAX. SPEED	FLOW RATE	PRESSURE	CONNECTION	MOTOR
ITPE	DIAMETER	LENGHT	Strokes/min	L/h	Bar	Suc/Dis (BSPP)	kW
N1	10	25	117	10	200	1/4" F	1,10
141	15	23	117	24	200	1/4 1	1,10
No	15	35	117	35,2	200	1/4" F	2.20
N2	20	33	117	67	200	1/4 F	2,20

Hydraulic diaphragm pump

Stark Series

Hydraulic diaphragm Metering pumps

A line hydraulic diaphragm metering pumps designed according to the API 675 Standards, It includes two subseries: SCB0 and SCB1.

■ FLOW RATE	up to 660 l/h
MAX PRESSURE	up 124 bar
■ FLUID TEMPERATURE	-10-70°C
CONTACT MATERIALS	SS316L; PVDF; PVC
■ COMPLIANCE	STANDARD ACCORDING TO API 675



Mechanisms

Mechanical return type available in various sizes

Main characteristics:

- Internal worm gearbox, oil bath lubricated with low noise emissions
- Rotating parts on bearings to minimise power consumption
- High precision stroke adjustment, both manual and by means of an electric actuator

Hydraulic diaphragm heads

The ideal solution for applications requiring high levels of operational safety and reliability

- Zero leakage; hermetic construction for dosing toxic, corrosive and other hazardous liquids, for which the absence of leaks is fundamental
- Protection against external pollutants which could contaminate the liquid being pumped
- Flexibility of use; the PTFE diaphragms are compatible with a vast assortment of liquids



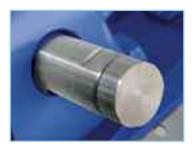
Mechanical refilling system

Maintains a constant level of the hydraulic fluid, thereby guaranteeing maximum precision and repeatability. Keeping also under control the deformation of diaphragm thereby increasing its duration.



Venting system

Aside from guaranteeing automatic venting during operation, the venting system also facilitates the pump priming by favouring the air purge by means of a manual action.



Pressure relief valve

Protects the pump against unexpected overpressure.



Cartridge valves

In order to ensure maximum dosing precision, even for small flow rates, double and triple ball configurations are available with high precision seats. The metal gaskets for the SS316L stainless steel heads, and the FPM gaskets for those in plastic, guarantee maximum compatibility.



Flow Rate adjustment

- Easy to handle knob with high visibility nonius for the best flow adjustment.
- Optionally automatic variation by electrical actuators **AKTUA**.

The electrical actuators **AKTUA** were designed to replace the manual adjusting device of the flow, on the pump, with an automatic system, remotely controllable, which acts on the length of the stroke of the pump, directly in the field.

- Internal display 4-digit, 7-segment display.
- Calibration can also be executed with system running.
- Available in standard version for installation in areas not classified, or ATEX compliant for installation in hazardous areas.



Applications Water treatment and Industrial sectors

- Municipalities
- Wastewater
- Chemical
- Food & Beverages
- Detergents
- Power Generation
- Environment
- Petrochemical
- Pharmaceutical
- Paper
- Textile

Accessories

- Flow rate calibration pots
- Pulsation dampers
- Safety valves
- Back pressure valves

Stark C B0

LIQUID END MATERIAL		PVC					
PLUNGER	STROKE	MAX. SPEED	FLOW RATE	PRESSURE	CONNECTION	MOTOR	
DIAMETER	LENGHT	Strokes/min	L/h	Bar	Suc/Dis (BSPP)	kW	
		112	6			0,18	
12		140	8			0,10	
		186	11	45	1/2" F	0,25	
		70	12			0,18	
20	10	112	18			0,10	
	10	186	29	15		0,25	
30		93	34			0,18	
30	35	140	52			0,10	
25		140	76			0,18	
33		186	97			0,25	

LIQUID END MATERIAL		PVDF					
PLUNGER	STROKE	MAX. SPEED	FLOW RATE	PRESSURE	CONNECTION	MOTOR	
DIAMETER	LENGHT	Strokes/min	L/h	Bar	Suc/Dis (BSPP)	kW	
		112	6			0,18	
12		140	8		1/2" F	0,10	
		186	11			0,25	
		70	12			0.10	
20	10	112	18			0,18	
	10	186	28	20		0,25	
20		93	33			0.10	
30	35	140	52			0,18	
25		140	74			0,18	
35		186	96			0,25	

LIQUID END MATERIAL		SS316L					
PLUNGER	STROKE	MAX. SPEED	FLOW RATE	PRESSURE	CONNECTION	MOTOR	
DIAMETER	LENGHT	Strokes/min	L/h	Bar	Suc/Dis (BSPP)	kW	
		112	3			0,18	
12		140	4	124 40		0,10	
		186	6			0,25	
		70	9		40		0,18
20	10	112	15			1/4" F	0,10
	10	186	25		27	0,25	
30		93	27	27		0,18	
30		140	46	20		0,10	
35		140	64			0,18	
33		186	86			0,25	

Stark C B1

LIQUID END MATERIAL		PVC				
PLUNGER	STROKE	MAX. SPEED	FLOW RATE	PRESSURE	CONNECTION	MOTOR
DIAMETER	LENGHT	Strokes/min	L/h	Bar	Suc/Dis (BSPP)	kW
30		117	110			1,10
30		186	175	15	1/2" F	1,50
		78	130			0,75
40		117	200			1,10
	25	235	420			1,50
		93	228			1,10
50		117	300			1,10
50		186	500			1,50
		235	650			1,50

LIQUID END MATERIAL		PVDF				
PLUNGER	STROKE	MAX. SPEED	FLOW RATE	PRESSURE	CONNECTION	MOTOR
DIAMETER	LENGHT	Strokes/min	L/h	Bar	Suc/Dis (BSPP)	kW
30		117	110			1,10
30		186	170		1/2" F	1,50
		78	125			0,75
40		117	200			1,10
	25	235	415	20		1,50
		93	225			1,10
50		117	295			1,10
30		186	500			1,50
		235	640			1,50

LIQUID END MATERIAL		SS316L				
PLUNGER	STROKE	MAX. SPEED	FLOW RATE	PRESSURE	CONNECTION	MOTOR
DIAMETER	LENGHT	Strokes/min	L/h	Bar	Suc/Dis (BSPP)	kW
15		93	18			
		93	35	124	1/4" F	1,10
20		117	44	12-1	1, 1 1	
		235	90			1,50
		62	63	68 35	3/4" F	0,75
30		117	110			1,10
		186	170			1,50
	25	78	130			0,75
40		117	200			1,10
40		186	330			1,50
		235	420			1,50
		62	150			0,75
		93	240			1,10
50		117	310	24		1,10
		186	510		1" F	1,50
		235	660			.,50

Kosmo Series **MM2**

Mechanical-return Diaphragm Metering Pump

MM2 pumps are electric motor-driven pumps with mechanical diaphragm liquid ends and mechanical return.

FEATURES

■ Flow rate	80 - 2,300 L/H
Max pressure	10 BAR
Stroke rate	43/86/131/175 Stroke/minute
Stroke length	7/8/9/15 mm
■ Diaphragm diameter	124/140/157/179 mm
Motor	0.55/0.75/1.1KW
Material of pump head	SS 316L, PVC, PVDF
■ Max temperature	40°C

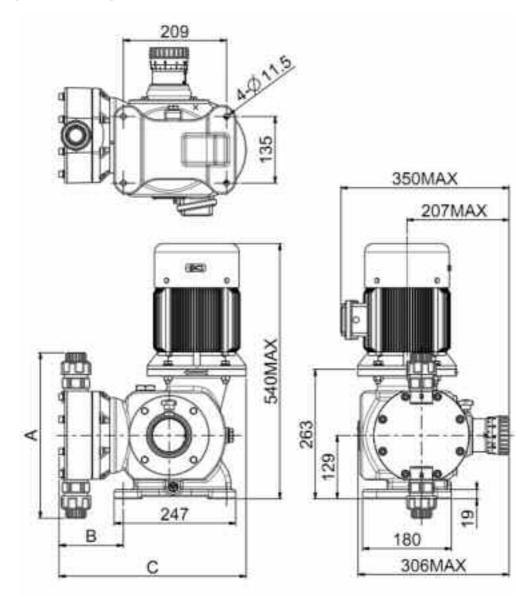


SPECIFICATIONS

Model			pressure	Connections			Motor [kw]	Gross weight [kg]	Wooden box size			
	[]	[mm]	[stroke/min]	[511]	[bar]	SS316L	PVC	PVDF	Pole	SS316L PVC PVDF	(LxWxH) [mm]	
MM2F124D**C40600			43	80								
MM2F124E**C40600		7	86	180								
MM2F124F**C40600	124	124	,	131	250	10	G3/4				56	
MM2F124G**C40600					350							
MM2G124G**C40600		8	175	450					0.55/4		700, (500, 770	
MM2F140G**C40600	140	7	1/3	500	7							
MM2G140G**C40600	140	8		600							700×500×750	
MM2H157F**C40600	157		131	720			G1			60		
MM2H157G**C40600	137	9	175	1,000								
MM2H179G**D40600			1/5	1,200	4				0.75/4			
MM2I179F**D40600	179	15	131	1,600		G1	G1 1/	2	0.73/4	68		
MM2I179G**E40600		15	175	2,300					1.1/4			

- 1.** refers to option of pump head material: SS316L(21/24);PVC(31/34);PVDF(41/44)
- 2. With exception to standard motor, it is also can be equipped with frequency-conversion motor or explosive-proof motor.
- 3. Test with water @ 20°C @ 50 Hz;Flow rate values with motor at 50Hz. Multiply by 1.2 for 60 Hz

INSTALLATION DRAWING



pump head	Diameter=124 Di			Diame	ter=14	0	Diameter=157 Diameter=179				9					
Material	Connection	Α	В	С	Connection	Α	В	С	Connection	Α	В	C	Connection	Α	В	С
PVC	DN20	293	123	372	DN25	316	129	377	DN25	334	130	379	DN40	424	148	395
PVDF	G3/4"F	293	123	372	G1"F	316	129	377	G1"F	334	130	379	G1 1/2"F	424	148	395
SS316L	G3/4"F	216	108	357	G1"F	251	130	378	G1"F	295	132	381	G1 1/2"F	382	160	407

LIQUID END MATERIALS

Material	Standard						
Material	21/24	31/34	41/44				
Pump head	SS316L	PVC	PVDF				
Diaphragm	PTFE						
Seal	FPM/EPDM						
Ball	SS316L	amic					
Ball Seat	333 TOL	PTFE					

Kosmo Series MM₁

Mechanical-return Diaphragm Metering Pump

Featuring the same distinctive specs of MM2 series, the MM1 range is the ideal choice for any application where both industrial pump design and fine dosing are required.

FEATURES

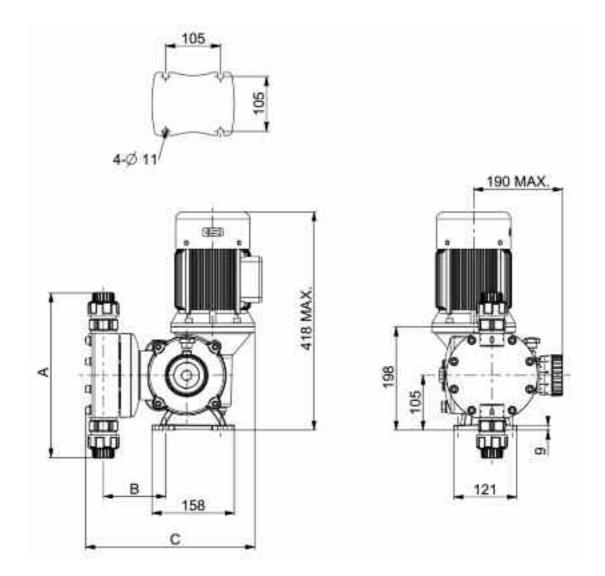
■ Flow rate	3 - 530 L/H
Max pressure	12 bar
Stroke rate	58/78/116/156 Stroke/minute
Stroke length	2/4/6.4/7.4mm
■ Diaphragm diameter	65/96/124/140mm
Motor	0.25/0.37KW
Material of pump head	SS 316L /PVC /PVDF
■ Max temperature	40°C

SPECIFICATIONS

Model			Flow rate	Max pressure	Connections			Motor [kw]	Gross weight [kg]		
	[111111]	[mm]	[stroke/min]	[DA]	[bar]	SS316L	PVC	PVDF	Pole	SS316L PVC PVDF	[mm]
MM1A065A**A40600			58	3.0			G1/4 8*12 PE Hose				
MM1A065B**A40600	65	2	78	4.5	12	G1/4					
MM1A065C**A40600		116 9 12 12 116 22									
MM1A096C**A40600			116	22						16	
MM1C096B**A40600	96		78	53	10		G3/8				
MM1C096C**B40600	90	96 4	116	85					0.37/4		450×300×550
MM1C096B**B20600			156	115	7				0.37/2		430/300/330
MM1D124B**B40600			78	170	'				0.37/4		
MM1D124C**B40600	124	6.4	116	242			G3/	4	0.37/4		
MM1D124B**B20600			156	340					0.37/2	20	
MM1E140C**B40600	140	7.4	116	400	5		<u>C</u> 1		0.37/4		
MM1E140B**B20600	140	7.4	156	530		G1		0.37/2			

- 1.** refers to option of pump head material: SS316L(21/24);PVC(31/34);PVDF(41/44)
- 2. With exception to standard motor, it is also can be equipped with frequency-conversion motor or explosive-proof motor.
- 3. Test with water @ 20° C @ 50 Hz;Flow rate values with motor at 50Hz. Multiply by 1.2 for 60 Hz

INSTALLATION DRAWING



pump head	Diameter=65mm						
Material	Connection	Α	В	С	Conn		
PVC	8x12	166	104	303	D١		
PVDF	8x12	166	104	303	G3,		
SS316L	G1/4"F	175	108	294	G3,		

Diameter=96mm									
Connection	Α	В	С						
DN10	222	108	301						
G3/8"F	222	108	301						
G3/8"F	167	107	293						
G3/8"F	167	107	293						

Dia	Diameter=124mm										
Connection	Α	В	C								
DN20	293	118	322								
G3/4"F	293	118	322								
G3/4"F	216	113	306								

Dia	Diameter=140mm										
Connection	Α	В	С								
DN25	316	119	323								
G1"F	316	119	323								
G1"F	251	120	319								

LIQUID END MATERIALS

Material	Standard						
iviaterial	21/24	31/34	41/44				
Pump head	SS316L	PVC	PVDF				
Diaphragm	PTFE						
Seal		FPM/EPDM					
Ball	SS316L	amic					
Ball Seat	333 TOL	PTFE					

MS1 Series

Mechanical Diaphragm Metering pumps

MS1 pumps are mechanical diaphragm metering pumps featuring a spring return mechanism in an aluminium housing.

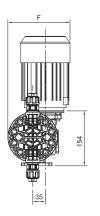
FEATURES

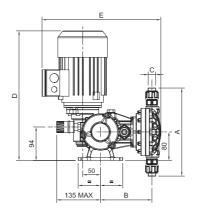
■ FLOW RATE	from 5,5 to 1,200 L/h
MAX PRESSURE	10 bar
■ STROKE RATE	58-78-116-232 strokes/minute
■ DIAPHRAGM DIAMETER	from 64 to 165 mm
MOTOR	standard 0.18-0.25-0.37-0.55 Kw (IP 55)
STROKE LENGTH	2 mm – 4 mm – 6 mm

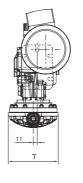


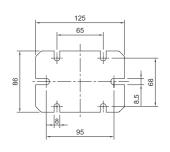
TECHNICAL FEATURES

MODEL	DIAPHRAGM DIAMETER	STROKE LENGTH	STROKES RATE	FLOW RATE		RESSURE oar]	CONNECTIONS		MOTORS [kW]	WEIGHT [Kg]		CARTON SIZE (LxWxH)					
	[mm]	[mm]	[Strokes/min]	[Strokes/min]	[Strokes/min]	[Strokes/min]	[Strokes/min]	[Strokes/min]	[L/h]	SS316L	PVC PVDF/PP	SS316L	PVC PVDF/PP	MO	SS316L	PVC PVDF/PP	(mm)
MS1A064A			58	5,5				1/4.05									
MS1A064B	64		78	8			1/4 GF	1/4 GF DN15	0.18(A)	15	13						
MS1A064C		2	116	11				51113									
MS1A094A			58	20	10				0.25(B)			430x280x530					
MS1A094B	94		78	26		10				16	14						
MS1A094C			116	40			3/8 GF	3/8 GF									
MS1B108A		4	58	60			3/0 di	DN15									
MS1B108B	108		78	80						19	16						
MS1B108C			116	120													
MS1C138A			58	155			3/4 GF	3/4 GF									
MS1C138B	138		78	220	7	7	3/4 GF	3/4 GF	0.37(C)	23	18						
MS1C138C			116	310													
MS1C165A		6	58	230	5	5						590x400x550					
MS1C165B	165		78	330	3	3	1"GF	1"GF		27	21	370X+00X330					
MS1C165C			116 530 4 4	. 5.	. 0												
MS1C138Q	138		232	750	4.5	4.5			0.55(W)	25	20						
MS1C165Q	165		232	1200	2	2			0.55(00)	29	23						







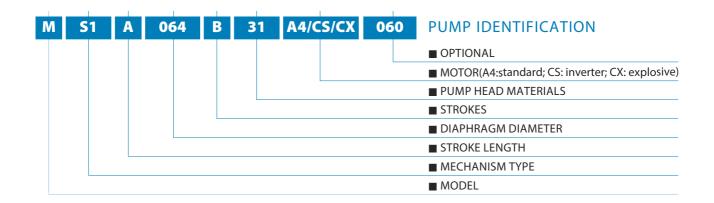


LIOUID	PLUNGER						THREE-PHASE					SIN	GLE-PH	ASE	
END MATERIAL	DIAMETER [mm]	A [mm]	B [mm]	[BSP]	T [mm]	MOTORS [kw]	MOTOR SIZE	D [mm]	E [mm]		MOTORS [kw]	MOTOR SIZE	D [mm]	E [mm]	F [mm]
	64	192	144	1/4" f	98	0.18	63 B14	333	321	146	0.25	71 B14	371	343	155
SS316L	94	172	146	3/8" f	118	0.25			335	165	0.37	/ I DI4	3/1	346	165
(21)	108	213	148	3/8 1	138	0.37	71 B14	371	337	175		80 B14	396	379	184
	138	261	158	3/4" f-1" f	168		71014		352	190	0.55			394	199
	165	297	165	1"f	188				372	200				414	209
PVC (31)	64	239	149	1/4" f	98	0.18	63 B14	333	326	146	0.25	71 B14	371	348	155
PVC (31) PVDF (41)	94	242	144	3/8" f	124	0.25			340	168	0.37	/ I DI4	3/1	351	168
PVDF (41) PP (51)	108	250	147	3/6 I	142		71 B14	371	343	177				385	186
FF (31)	138	347	159	3/4" f-1" f	166	0.37	71014	3/1	364	189	0.55	80 B14	396	406	198
PVC (31) ,PVDF (41), PP (51)	165	375	172	1"f	195				372	214				414	223

		STAN	DARD								
	21/24	31/34	41/44	51/54							
PUMP HEAD	SS316L	PVC	PVDF	PP							
DIAPHRAGM	PTFE										
SEAL		FPM/	EPDM								
VALVES	SS316L		Ceramic								
VALVE SEATS	33310L	PTFE	PVDF	PP							

OPTIONAL FEATURES

Every pump can be equipped with frequency-conversion motor or explosion-proof motor or electric actuator which accepts 4÷20mA signal.



MSA Series

Mechanical Diaphragm Metering pumps

SEKO MSA Series is a mechanical diaphragm metering pump with spring return and PPS housing.

FEATURES

■ FLOW RATE	from 10 to 120 L/h
MAX PRESSURE	5 bar
■ STROKE RATE	30-50-100-150-166 strokes/minute
■ DIAPHRAGM DIAMETER	70 mm
STROKE LENGTH	4-5 mm



TECHNICAL FEATURES

MODEL	DIAPHRAGM DIAMETER	STROKES RATE	STROKE LENGTH				CONNECTIONS		MOTOR [kW]	- 3-		CARTON SIZE (LxWxH)	
	[mm]	[Strokes/min]	[mm]	[L/h]	SS316L	PVC	SS316L	PVC		SS316L	PVC	(mm)	
MSAF070P		30		10									
MSAF070O		50	4	20	5	5 5 3 3	5 3/8"gf	'gf 8x12 (Standard) DN15 (Option)	0.06(X)				
MSAF070N	70	100		40						11	8	430x280x370	
MSAF070M	70	150		60						''	0	43082608370	
MSAF070R		166	5	90									
MSAH070R		100	7	120	3								

PUMP HEAD MATERIALS

SS316L, PVC PUMP HEAD

PTFE DIAPHRAGM

MAX DOSAGE TEMPERATURE

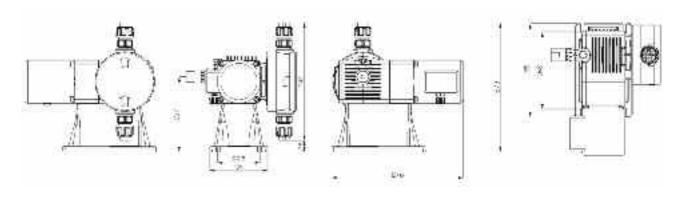
PVC/SS316L: 40°C

MOTOR CHARACTERISTICS

■ PROTECTION CLASS

IP55; Insulation: F





INSTALLATION KIT (for PVC pump head only)



Injection valve (compliance with material of pump head) (G3/8", G1/2")



Foot valve (compliance with material of pump head)

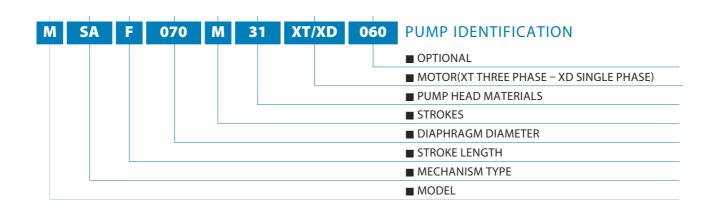


Suction tube (PVC, 2m, 8×12)



Delivery tube (PE, 3m, 8×12)

	STAN	DARD	ON RE	QUEST			
	21	31	24	34			
PUMP HEAD	SS316L	PVC	SS316L	PVC			
DIAPHRAGM		PT	FE				
SEAL	FPM		EPDM				
VALVES	SS316L	Ceramic	SS316L	Ceramic			
VALVE SEATS	333 IOL	PTFE	333 TOL	PTFE			



PS2 Series

Plunger Piston Metering pumps

PS2 pumps are plunger piston metering pumps featuring a spring return mechanism in an aluminium housing.

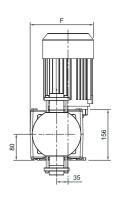
FEATURES

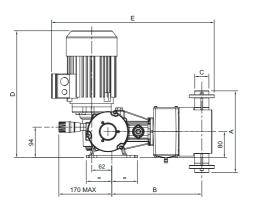
■ FLOW RATE	from 40 to 1000 L/h
MAX PRESSURE	20 bar
■ STROKE RATE	58 – 116 strokes/minute
■ PISTON DIAMETER	from 25 to 89 mm
■ MOTOR	standard 0.55-0.75 Kw (IP 55)
■ STROKE LENGTH	25 mm

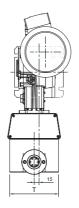


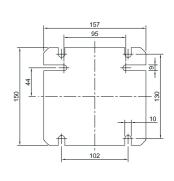
TECHNICAL FEATURES

MODEL	PISTON DIAMETER	STROKES RATE	FLOW RATE	MAX PR [ba	essure ar]	CONNE	CTIONS	MOTORS [kW]	WEI	GHT g]	CARTON SIZE (LxWxH)
	[mm]	[Strokes/min]	[L/h]	SS316L	PVC	SS316L	PVC	Ž	SS316L	PVC	(mm)
PS2E025A	25	58	40								
PS2E025C	23	116	80			3/8 GF		0.55(D)	25	23	
PS2E030A	30	58	55]		3/0 (1	3/8 GF	0.33(0)	23	23	
PS2E030C	30	116	112			DN15					
PS2E038A	38	58	90	20	10						
PS2E038C	30	116	180						26	24	
PS2E048A	48	58	140			1/2 GF			20	24	
PS2E048C	40	116	284			1/2 GF	1/2 GF				590x400x550
PS2E054A	54	58	180	15	10		1/2 GI		27	25	390X400X330
PS2E054C	34	116	365	15	10			0.75(5)	21	25	
PS2E064A	64	58	250	10	10	2/4.65	2/4.65	0.75(E)	29	26	
PS2E064C	04	116	505	10	10	3/4 GF	3/4 GF		29	20	
PS2E076A	76	58	365	7	7				34	27	
PS2E076C	76	116	730		/	1" GF	1" CF		54	2/	
PS2E089A	90	58	495	_	-	I GF	1" GF		20	20	
PS2E089C	89	116	1000	5	5				38	28	









LIQUID	PLUNGER				т		THE	REE-PH	ASE			SING	GLE-PH	ASE	
END MATERIAL	DIAMETER [mm]	A [mm]	B [mm]	C [BSP]	[mm]	MOTORS [kw]	MOTOR SIZE		E [mm]	F [mm]	MOTORS [kw]	MOTOR SIZE	D [mm]	E [mm]	F [mm]
	25	121	258	3/8" f	68	0.25			443		0.37	71 B14	385	455	187
	30	122	230	3/0 1	00	0.23	71 B14	385	773	187	0.57	71014	303	733	107
	38	164			88.5	0.37			455		0.55			498	197
SS316L	48	104	268	1/2" f	00.5	0.55			470		197		398	470	
(21)	54	176			108	0.55			472			80 B14		500	
	64	195	273	3/4" f	103		80 B14	398	491	197		00 014	412	523	
	76	241	288		112	0.75			510					542	
	89	253	200		125				3.0					J+2	
	25	179	258		78 0.25	0.25	71 B14	385	453		0.37	71 B14	385	465	187
	30	178	236	3/8" f	70	0.23			433	187	0.57	/ I DI4	303	403	107
	38	200			98	0.37			467		0.55			510	
PVC	48	244	268	1/2" f	108	0.55			483		0.75		398	511	
(31)	54	253			118	0.55			COF		0.75	80 B14		511	197
	64	273	273	3/4" f	110		80 B14	398	493	197		00 014		525	197
	76	299	288	1"f	148	0.75			513]	1.10		412	545	
	89	309	200	_ ' '	158				213					777	

	SIAN	DAKD			
	21/24	31/34			
PUMP HEAD	SS316L	PVC			
PISTON	333 LOF	Ceramic			
PISTON SEAL	FPM/	EPDM			
VALVES	SS316L	Ceramic			
VALVE SEATS	333 TOL	PTFE			

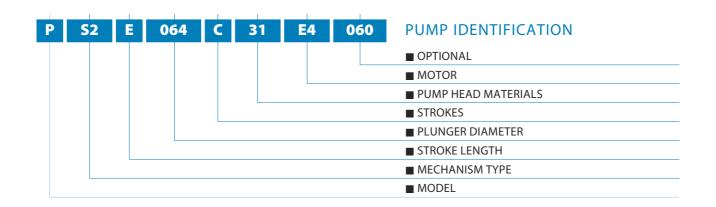
PUMP HEAD MATERIALS

MAX DOSAGE TEMPERATURE

PVC/SS316L: 40°C

FLOW RATE ADJUSTMENT

Every pump can be equipped with frequency-conversion motor or explosion-proof motor or electric actuator which accepts 4-20mA.



PS1 Series

Plunger Piston Metering pumps

PS1 pumps are plunger piston metering pumps featuring a spring return mechanism in an aluminium housing.

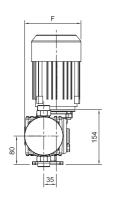
FEATURES

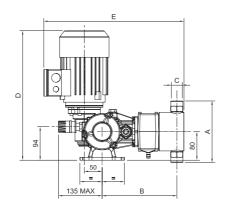
■ FLOW RATE	from 1,5 to 304 L/h
■ MAX PRESSURE	20 bar
■ STROKE RATE	58 – 116 strokes/minute
_ 0.6700	
■ PISTON DIAMETER	from 6 to 64 mm
MOTOR	standard 0,18 and 0,25 Kw (IP 55)



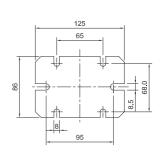
TECHNICAL FEATURES

MODEL	PISTON DIAMETER	STROKES RATE	FLOW RATE		ESSURE ar]	CONNECTIONS		MOTORS [kW]	WEI		CARTON SIZE (LxWxH)	
	[mm]	[Strokes/min]	[L/h]	SS316L	PVC	SS316L	PVC	Ž	SS316L	PVC	(mm)	
PS1D006A	6	58	1,5						14	12		
PS1D006C	0	116	3				1/4.05		14	12		
PS1D011A	11	58	5	20		1/4 GF	1/4 GF DN15					
PS1D011C		116	10				J. W. J.	0.18(A)				
PS1D017A	17	58	11		10			0.16(A)	14	13	430x280x530	
PS1D017C	17	116	22									
PS1D025A	25	58	25									
PS1D025C	23	116	50				3/8 GF					
PS1D030A	30	58	35			3/8 GF	5/6 GF DN15		17	14		
PS1D030C	30	116	70						17	17		
PS1D038A	38	58	55	17	10	10				19	16	
PS1D038C	36	116	110	17	10			0.25(B)	13	10		
PS1D048A	48	58	85	10	10				19	17		
PS1D048C	-10	116	170	10	10	1/2 GF	1/2 GF	0.23(b)	19	17		
PS1D054A	54	58	110	8	8	1/2 GI	1/2 GI		20	17		
PS1D054C	54	116	220	0	8				20	17	500×400×550	
PS1D064A	64	58	152	6	4	3/4 GF	4.65 2/4.65		21	19	590x400x550	
PS1D064C	04	116	304	3	-+	3/4 GF	3/4 GF 3/4 GF		<u> </u>	19		









LIQUID	PLUNGER						THE	REE-PH	ASE			SING	GLE-PH	ASE	
END MATERIAL	DIAMETER [mm]	Α	B [mm]	C [BSP]	T [mm]	MOTORS [kw]	MOTOR SIZE	D [mm]	E [mm]	F [mm]	MOTORS [kw]	MOTOR SIZE	D [mm]	E [mm]	F [mm]
	6	161		1/4"f											
	11	.01	195			0.18	8 63 B14	333	362	151	0.25			392	
	17	121			68	0.10		333		131	0.23				
SS316L	25		200	3/8"f				367					397		
(21)	30	122		0,0.					378					0,7	
	38	164			88.5		_		390					409	
	48		210	1/2"f		0.25	71 B14	371		160	0.37				
	54	176			108				392					411	160
	64	195	215	3/4"f	103				401			71 B14	371	420	100
	6	220		1/4"f					368	151	0.25		3,1		
	11		195	.,	79	0.18	63 B14	333						398	
	17	179				0.10	03 01 1	333		131	0.23				
PVC	25		200	3/8"f	78				377					407	
(31)	30	178	200	3,01					388						
(31)	38	200			98				402	160				421	
	48	244	210	1/2"f	108	0.25	71 B14	371	403	165	0.37			422	
	54	253			118				103						165
	64	273	215	3/4"f	120				413	166				432	166

	STANDARD	
	21/24	31/34
PUMP HEAD	SS316L	PVC
PISTON		Ceramic
PISTON SEAL	FPM/EPDM	
VALVES	SS316L	Ceramic
VALVE SEATS		PTFE

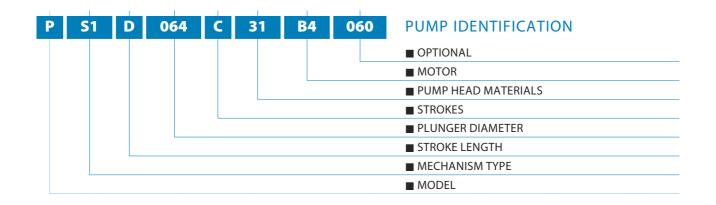
PUMP HEAD MATERIALS

MAX DOSAGE TEMPERATURE

PVC/SS316L: 40°C

FLOW RATE ADJUSTMENT

Every pump can be equipped with frequency-conversion motor or explosion-proof motor or electric actuator which accepts 4-20mA.



Notes

Notes

Your Choice, Our Commitment

People choose to do business with SEKO for one or more reasons, but ultimately it is their choice, and therefore they merit our commitment. "Our commitment" is total and not only to our customers, but also to each other and the Company's to its employees.

VISION TO BE YOUR PARTNER OF CHOIC DOSING SOLUTIONS, GLOBALLY TO BE YOUR PARTNER OF CHOICE FOR

SEKO, is a passionate, dedicated Global Family of Professionals. We listen to each of our Partners and are committed to deliver the right solution in the Hygiene, Water Treatment and Industrial Process markets.

Values

MUTUAL RESPECT, QUALITY AND SPIRIT OF COLLABORATION

MUTUAL RESPECT

Mutual Respect because doing business is about being able to generate trust between Customer and Supplier. We'll deliver against our commitments, on time and in a transparent fashion, so you know can plan for your own business needs.

QUALITY

Quality for SEKO is a 360° reality. It covers not only the design, development, production and delivery of our products and solutions but it runs through the core professionalism of our teams

SPIRIT OF COLLABORATION

Spirit of Collaboration is fundamental to our success and SEKO prides itself on how we work as a worldwide team, blending multiple country teams and functions to bring solutions to a Customer request or market need from an idea to the real world in very short time, across our global presence and beyond.



Your Choice, Our Commitment

In the modern Globalised world, being a privately owned Company has significant benefits especially for our Customers, our Partners. For over 40 years, SEKO has developed a Global organisation able to take the longer view, manage the pressure of the now, and to plan for the long term, delivering true Partnership for our Customers, with transparency and mutual respect for each other.

Whether it's for our reknown flexibility, our attention to detail, the high-quality products, or just the way we do business, we understand that it's Your Choice to do business with us. It is Our Commitment to fulfill your needs wherever you, our Customers are.



For more information about our portfolio, worldwide locations, approvals, certifications, and local representatives, please www.seko.com



As part of a process of on-going product development, SEKO reserves the right to amend and change specifications without prior notice. Published data may be subject to change.