

# Spring PS1

## Spring-return plunger piston dosing pump

- Flow rate range: 1.5 - 304 l/h, up to 20 bar
- Wetted parts: SS316L, PVC, PTFE, FPM, EPDM and Ceramic

The PS1 series is designed for applications that require lower flow rates than the PS2 series while offering multiple combinations of pump head, motor power and piston stroke length. This achieves multiple hydraulic characteristics for adapting to a large number of applications.

Like PS2, each model can be configured with two different stroke rates and is available with 3-phase or single-phase motors, both with IP55 protection.

Versions with a 12 Vdc motor are available that achieve flow rates between 34 and 350 l/h at pressure up to 20 bar.

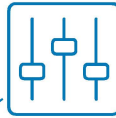
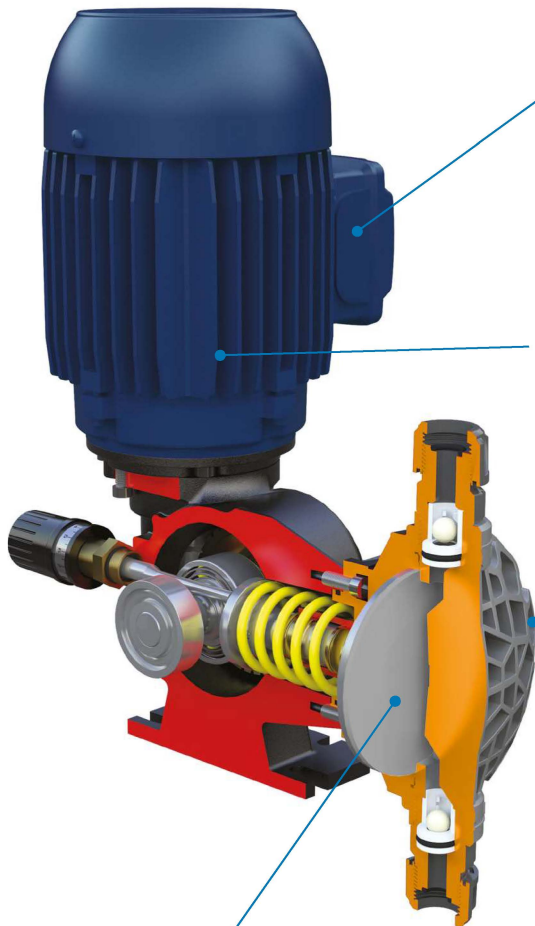


## Specification

Model	Diameter [mm]	Stroke length [mm]	Frequency [stroke/1']	Flow rate [l/h]	Max pressure [bar]		Connections		Motor [kW/pole]	Weight [kg]		Packing size L x W x H [mm]	
					SS316L	PVC	SS316L	PVC		SS316L	PVC		
PSID006A**A4000	6	25	58	1.5	20	10	BSPf 1/4"	BSPf 1/4"	0.18/4 (A4)	10.0	8.5		
PSID006C**A4000			116	3									
PSID011A**A4000	11		58	5	20	10*	BSPf 1/4"	BSPf 1/4"	0.18/4 (A4)	10.0	8.5		
PSID011C**A4000			116	10									
PSID017A**A4000	17		58	11	20	10*	BSPf 3/8"	BSPf 3/8"	0.18/4 (A4)	10.0	8.5		435 x 295 x 520
PSID017C**A4000			116	22									
PSID025A**A4000	25		58	25	20	10*	BSPf 3/8"	BSPf 3/8"	0.18/4 (A4)	10.0	8.5		
PSID025C**A4000			116	50									
PSID030A**B4000	30		58	35	20	10*	BSPf 3/8"	BSPf 3/8"	0.25/4 (B4)	11.5	10.0		
PSID030C**B4000			116	70									
PSID038A**B4000	38		58	55	17	10*	BSPf 3/8"	BSPf 3/8"	0.25/4 (B4)	13.0	10.0		
PSID038C**B4000			116	110									
PSID048A**B4000	48	58	85	10	10	BSPf 1/2"	BSPf 1/2"	0.25/4 (B4)	13.0	10.0	520 x 350 x 590		
PSID048C**B4000		116	170										
PSID054A**B4000	54	58	110	8	8	BSPf 1/2"	BSPf 1/2"	0.25/4 (B4)	15.0	10.5			
PSID054C**B4000		116	220										
PSID064A**B4000	64	58	152	6	4	BSPf 1/4"	BSPf 1/4"	0.25/4 (B4)	16.0	15			
PSID064C**B4000		116	304										

\* Available with special Enforced Pump Head for use up to 20 bar

# Features & benefits



## Optional extras

Almost all models are also available in the Elektra version which, thanks to integration with an inverter including 4 - 20 mA and pulse inputs, allows them to be managed with menus and functions typical of proportional dosing pumps



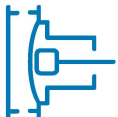
## Ultra-reliable Spring range

The Spring range includes a broad range of hydraulic configurations, reaching high flow rates up to 1,000 l/h, and back-pressure up to 20 bar



## Low operating costs

Due to the outstanding ease of programming coupled with low maintenance requirement



## Diaphragm options

Mechanical diaphragm in PTFE



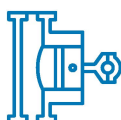
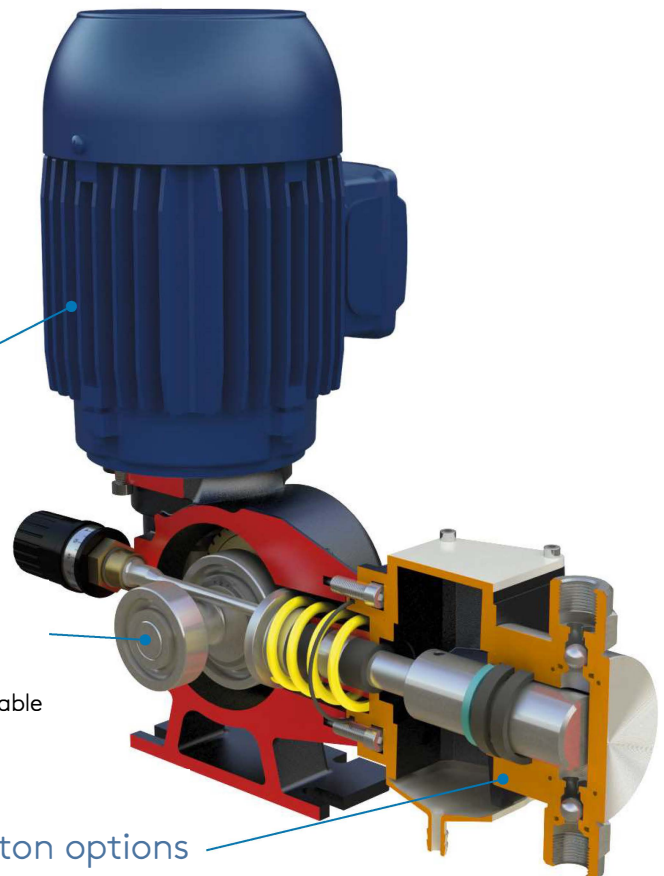
## Energy-efficient motors

A wide range of motors available to meet your application requirements



## Chemical applications

A wide range of materials available for superior chemical compatibility and suitable for high-viscosity chemical applications



## Piston options

Piston available as standard in SS316 or ceramic

# Spring PS1 key code

Model									
P	Piston pump								
<b>Mechanism type</b>									
S1	Spring return								
<b>Stroke length [mm]</b>									
D	15								
<b>Piston diameter [Ø mm]</b>									
006	6								
011	11								
017	17								
025	25								
030	30								
038	38								
048	48								
054	54								
064	64								
<b>Stroke/1'</b>									
A	58	Ratio 24:1							
C	116	Ratio 12:1							
<b>Pump head</b>									
	Body	Balls	Piston	Seat	Sealings				
21	SS316L	SS316L	SS316L	SS316L	FPM				
24	SS316L	SS316L	SS316L	SS316L	EPDM				
31	PVC	Ceramic	PTFE	PTFE	FPM				
34	PVC	Ceramic	PTFE	PTFE	EPDM				
<b>Motor type</b>									
	kW	Supply			Size				
S0	Without motor								
A4	0.18 - 3ph	230 - 400 Vac, 50/60 Hz			63-B14				
B4	0.25 - 3ph	230 - 400 Vac, 50/60 Hz			71-B14				
H4	0.25 - 1ph	230 Vac, 50 Hz			71-B14				
I4	0.37 - 1ph	230 Vac, 50 Hz			71-B14				
<b>Stroke regulation</b>									
0	Manual with adjustment knob								
L	Automatic with linear actuator of Aktua series								
<b>Customisation</b>									
0	Standard								
H	High pressure								
<b>Optional</b>									
0	Standard								
2	(S0 - without motor) + adapter kit								
P	S1	D	011	C	31	A4	L	0	0