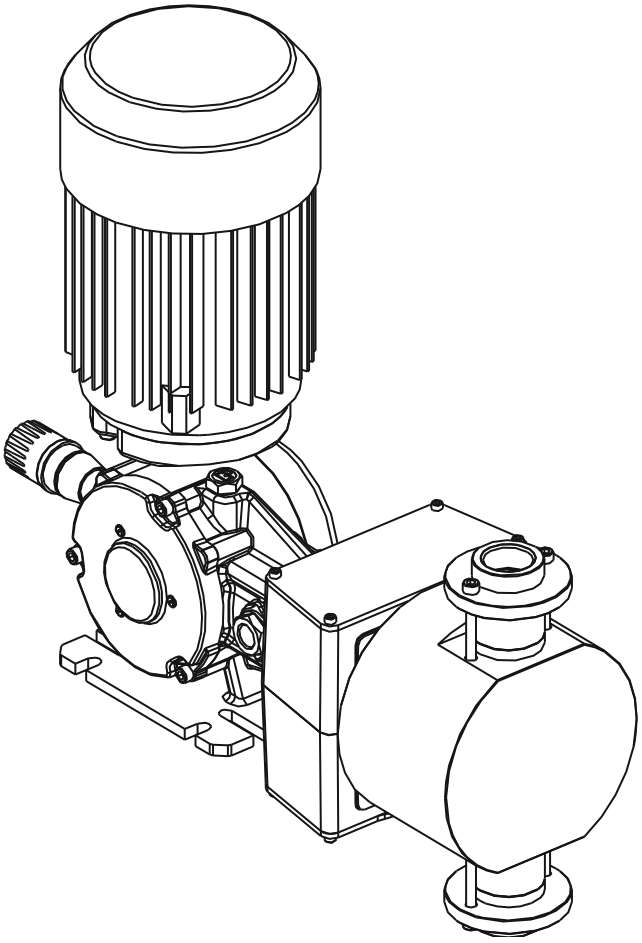
DOSING PUMP

SPRING SERIES – PS2 – Plunger piston pump



Technical characteristics

- Flow rates: from 40 to 1000 l/h
- Max Pressure: up to 20 bar (290 psi)
- Motor:
  - 0.25 kW to 0.75 kW - 3ph (IP55)
  - 0.37 kW to kW - 1.1 kW 1ph (IP55)
- Stroke rate: 58 -116 strokes/minute
- Stroke length: 25 mm
- Piston diameter: from 25 to 89 mm
- Pump head:
  - SS 316 L
  - PVC
- Max. dosing temperature:
  - SS 316 L 90˚ C
  - PVC 40˚ C
- Ambient dosing temperature:
  - +5 ÷ +45 ˚C
- Stocking temperature:
  - -10 ÷ +50 ˚C

Seko plunger piston pump PS2 Series has a wide range product. PS2 Series performances cover a range from 40 to 1000 l/h with a back pressure up to 20 bar, having several configurations available for the pump head and power, in order to have the characteristics most suitable for processes where required.

PS2 pump have a spring return mechanism into an aluminum housing.

Each model has 2 values of stroke rate and 25 mm of stroke length, which can be set manually or automatically using a linear actuator which accepts a signal 4 – 20 mA. Moreover, they can be supplied with 3 phases or 1 phase electric motor with protection class IP55.

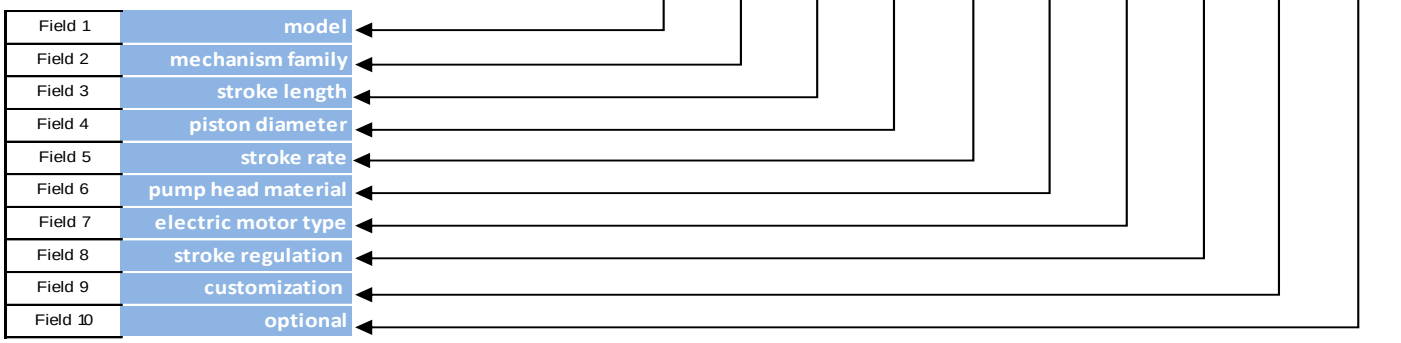
PS2 Series have the same features than PS1, still change the some hydraulic characteristic due by bigger size of piston, longer stroke length, therefore the flow rate and power.

DOSING PUMP

SPRING SERIES – PS2 – Plunger piston pump

PUMP KEY CODE

Field 1	Field 2	Field 3	Field 4	Field 5	Field 6	Field 7	Field 8	Field 9	Field 10
P	S2	E	038	C	21	U4	0	0	0



Field 1 – model

P	***Plunger Piston***

Field 2 – mechanism family

S2	*Piston*

Field 3 – stroke length

E	*25 [mm]*

Field 4 – piston diameter

025	*25 [mm]*	**054**	*54 [mm]*
030	*30*	**064**	*64*
038	*38*	**076**	*76*
048	*48*	**089**	*89*

Field 5 – stroke rate

A	*58 [stroke/1']*
C	*116*

Field 6 – pump head material

	head	*piston*	*pist. seal*	*valves*	*seat valves*	*O-Ring*	
21	SS316	SS316	FPM	SS316	SS316	FPM	
31	PVC	CERAMIC	FPM	CERAMIC	PTFE	FPM	on Ø 25 - 30 - 38
24	SS316	CERAMIC	EPDM	SS316	SS316	EPDM	
32	PVC	CERAMIC	FPM	SS316	SS316	FPM	on Ø 25 - 30 - 38
34	PVC	CERAMIC	EPDM	CERAMIC	PTFE	EPDM	on Ø 25 - 30 - 38

Field 7 – electric motor type

T4	*0,25 kW*	(4 poles - 3phases 230-400 Vac 50/60 Hz - size 71-B5)
U4	*0,37 kW*	(4 poles - 3phases 230-400 Vac 50/60 Hz - size 71-B5)
D4	*0,55 kW*	(4 poles - 3phases 230-400 Vac 50/60 Hz - size 80-B14)
E4	*0,75 kW*	(4 poles - 3phases 230-400 Vac 50/60 Hz - size 80-B14)
Z4	*0,37 kW*	(4 poles - 1phase 230 Vac 50 Hz - size 71-B5)
L4	*0,55 kW*	(4 poles - 1phase 230 Vac 50 Hz - size 80-B14)
M4	*0,75 kW*	(4 poles - 1phase 230 Vac 50 Hz - size 80-B14)
N4	*1,1 kW* ***with breaker torque***	(4 poles - 1phase 230 Vac 50 Hz - size 71-B14)
BI	*0,25 kW*	(4 poles - 3phases 230-400 Vac 50/60 Hz - size 71-B5 - with INVERTER)
CI	*0,37 kW*	(4 poles - 3phases 230-400 Vac 50/60 Hz - size 71-B5 - with INVERTER)
DI	*0,55 kW*	(4 poles - 3phases 230-400 Vac 50/60 Hz - size 80-B14 - with INVERTER)
EI	*0,75 kW*	(4 poles - 3phases 230-400 Vac 50/60 Hz - size 80-B14 - with INVERTER)
S0	*WITHOUT motor*	

Field 8 – stroke regulation

0	*Manual with adjustment knob - STANDARD*
L	*Automatic Linear Actuator AKTUA series*

Field 9 – customization

0	*Standard*
H	*High Pressure*

Field 10 – optional

0	*Standard*
2	*(S0 - WHITOUT motor) + adapter kit*

DOSING PUMP

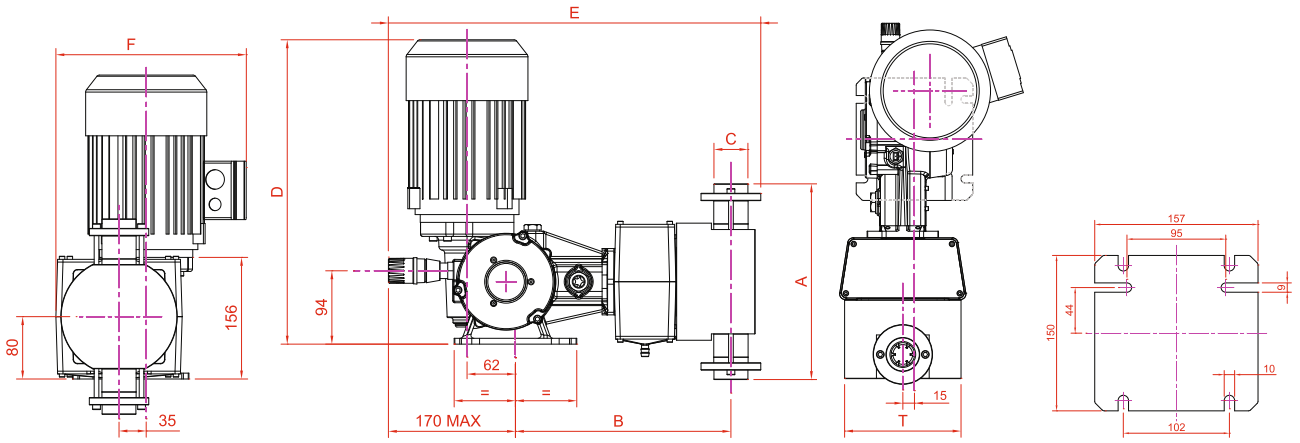
SPRING SERIES – PS2 – Plunger piston pump

HYDRAULIC CHARACTERISTICS

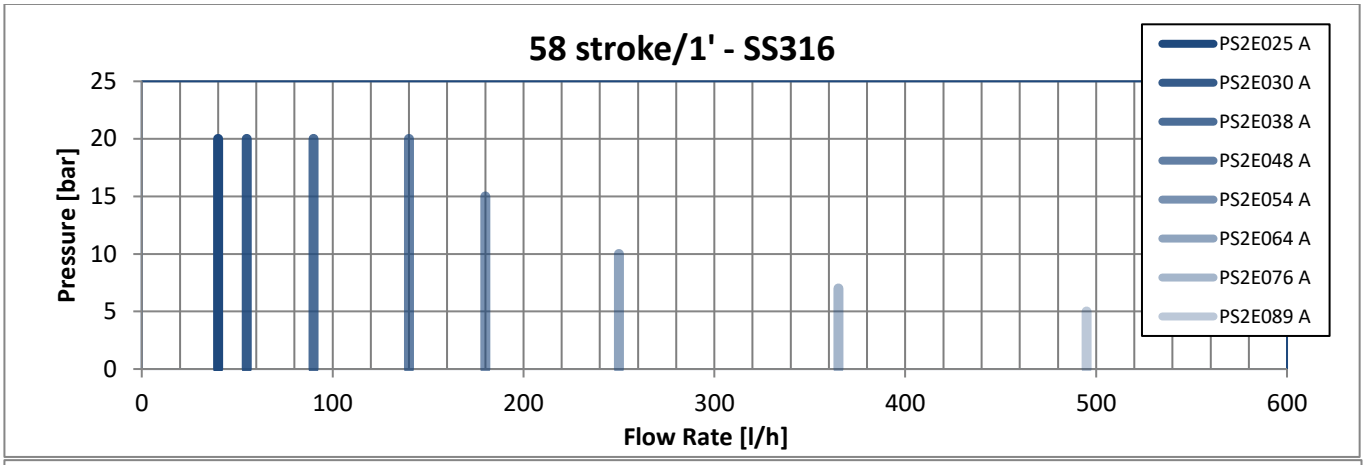
Pump Model	Piston Diameter [mm]	Stroke/min	Flow rate		Max back pressure				Suction/Discharge Connection		Electric Motor 50 Hz 3 phases [kW]
					bar		p.s.i.				
			l/h	gl/h	SS 316	PVC	SS 316	PVC	SS 316	PVC	
P S 2 E 0 2 5 A P S 2 E 0 2 5 C	25	58 116	40 80	10.57 21.13	20	10	290	145	3/8" G F	3/8" G F	0,25 (T4)
P S 2 E 0 3 0 A P S 2 E 0 3 0 C	30	58 116	55 112	14.53 29.59	20	10	290	145	3/8" G F	3/8" G F	0,25 (T4)
P S 2 E 0 3 8 A P S 2 E 0 3 8 C	38	58 116	90 180	23.77 47.55	20	10*	290	145*	1/2" G F	1/2" G F	0,37 (U4)
P S 2 E 0 4 8 A P S 2 E 0 4 8 C	48	58 116	140 284	36.98 75.02	20	10*	290	145*	1/2" G F	1/2" G F	0,55 (D4)
P S 2 E 0 5 4 A P S 2 E 0 5 4 C	54	58 116	180 365	47.55 96.42	15	10	217	145	1/2" G F	1/2" G F	0,55 (D4)
P S 2 E 0 6 4 A P S 2 E 0 6 4 C	64	58 116	250 505	66.04 133.40	10	10	145	145	3/4" G F	3/4" G F	0,75 (E4)
P S 2 E 0 7 6 A P S 2 E 0 7 6 C	76	58 116	365 730	96.42 192,85	7	7	101	101	1" G F	1" G F	0,75 (E4)
P S 2 E 0 8 9 A P S 2 E 0 8 9 C	89	58 116	495 1000	130.76 264.17	5	5	72.5	72.5	1" G F	1" G F	0,75 (E4)

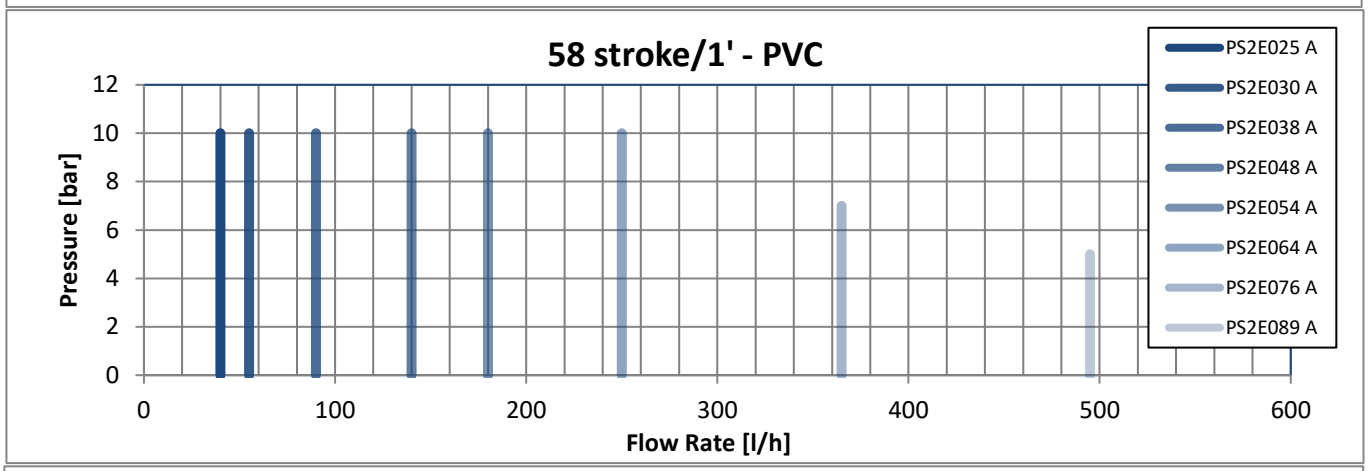
* Available with special reinforced pump head for use with pressure up to 20 bar - 14° Field (Optional) in the Key Code identified by "H"

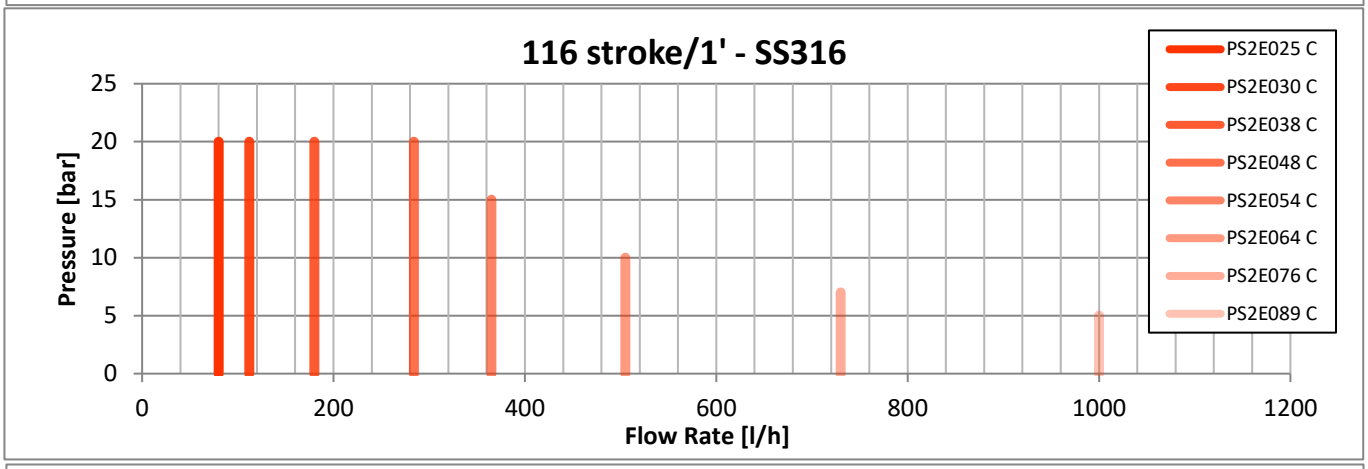
DIMENSIONS

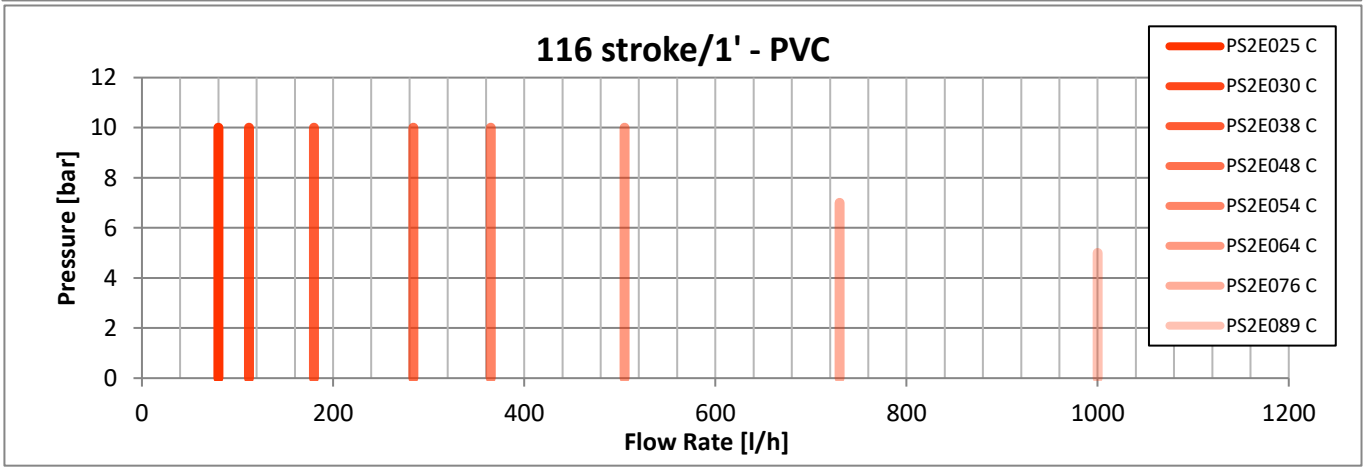


Mat testata Liquid end mat	Diam pistone Plunger diam	A[mm]	B[mm]	C (BSP)	T[mm]	Three phase					Single phase				
						Motore 4P Motor 4P [kW]	Gr. motore Motor Size	D[mm]	E[mm]	F[mm]	Motore 4P Motor 4P [kW]	Gr. motore Motor Size	D[mm]	E[mm]	F[mm]
AISI316 (21)	25	121	258	3/8" f	68	0.25	71 B5	385	421	168	0.37	71 B5	385	421	168
	30	122	258	3/8" f	68	0.25	71 B5	385	421	168	0.37	71 B5	385	421	168
	38	164	268	1/2" f	88,5	0.37	71 B5	385	433	189	0.55	80 B14	398	433	189
	48	164	268	1/2" f	88,5	0.55	80 B14	398	448	189	0.75	80 B14	398	448	189
	54	176	268	1/2" f	108	0.55	80 B14	398	450	208	0.75	80 B14	398	450	208
	64	195	273	3/4" f	103	0.75	80 B14	398	469	203	1,10	80 B14	412	469	203
	76	241	288	1" f	112	0.75	80 B14	398	490	212	1,10	80 B14	412	490	212
	89	253	288	1" f	125	0.75	80 B14	398	490	225	1,10	80 B14	412	490	225
PVC (31)	25	179	258	3/8"f	78	0.25	71 B5	385	431	178	0.37	71 B5	385	431	178
	30	178	258	3/8" f	78	0.25	71 B5	385	431	178	0.37	71 B5	385	431	178
	38	200	268	3/8" f	98	0.37	71 B5	385	445	198	0.55	80 B14	398	445	198
	48	244	268	1/2" f	108	0.55	80 B14	398	461	208	0.75	80 B14	398	461	208
	54	253	268	1/2" f	118	0.55	80 B14	398	461	218	0.75	80 B14	398	461	218
	64	273	273	3/4" f	118	0.75	80 B14	398	471	218	1,10	80 B14	412	471	218
	76	299	288	1" f	148	0.75	80 B14	398	491	248	1,10	80 B14	412	491	248
	89	309	288	1" f	158	0.75	80 B14	398	491	258	1,10	80 B14	412	491	258


58 stroke/1' - SS316
Pressure [bar]
0
5
10
15
20
25
0
100
200
300
400
500
600
Flow Rate [l/h]
PS2E025 A
PS2E030 A
PS2E038 A
PS2E048 A
PS2E054 A
PS2E064 A
PS2E076 A
PS2E089 A


58 stroke/1' - PVC
Pressure [bar]
0
2
4
6
8
10
12
0
100
200
300
400
500
600
Flow Rate [l/h]
PS2E025 A
PS2E030 A
PS2E038 A
PS2E048 A
PS2E054 A
PS2E064 A
PS2E076 A
PS2E089 A


116 stroke/1' - SS316
Pressure [bar]
0
5
10
15
20
25
0
200
400
600
800
1000
1200
Flow Rate [l/h]
PS2E025 C
PS2E030 C
PS2E038 C
PS2E048 C
PS2E054 C
PS2E064 C
PS2E076 C
PS2E089 C


116 stroke/1' - PVC
Pressure [bar]
0
2
4
6
8
10
12
0
200
400
600
800
1000
1200
Flow Rate [l/h]
PS2E025 C
PS2E030 C
PS2E038 C
PS2E048 C
PS2E054 C
PS2E064 C
PS2E076 C
PS2E089 C