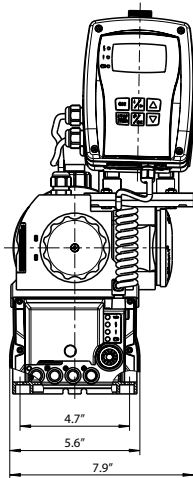


Capacity Data

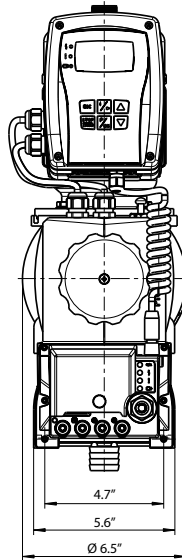
Capacity Data														
Pump Version	Capacity at Maximum Back Pressure				Max. Stroking Rate	Output per Stroke	Pre-Primed Suction Lift		Max. Suction Pressuer.		Suction/Discharge Connector		Shipping Weight w/ Motor (approx.)	
	psig	(bar)	GPH	(L/h)			ft.	(m)	(in.)	lbs.	DN	in.	lbs.	(kg)
S1Cb HM														
12017 PVT	145	(10)	5.2	(20)	90	4	23	(7)	14.5	(1)	10	1/2 MNPT	19.8	(9)
12017 SST	174	(12)	5.2	(20)	90	4	23	(7)	14.5	(1)	10	3/8 FNPT	26.5	(12)
12035 PVT	145	(10)	11.1	(42)	170	4	23	(7)	14.5	(1)	10	1/2 MNPT	19.8	(9)
12035 SST	174	(12)	11.1	(42)	170	4	23	(7)	14.5	(1)	10	3/8 FNPT	26.5	(12)
10050 PVT	145	(10)	13.2	(50)	200	4	23	(7)	14.5	(1)	10	1/2 MNPT	19.8	(9)
10050 SST	145	(10)	13.2	(50)	200	4	23	(7)	14.5	(1)	10	3/8 FNPT	26.5	(12)
10022 PVT	145	(10)	6.8	(26)	90	5.1	19.6	(6)	14.5	(1)	10	1/2 MNPT	19.8	(9)
10022 SST	145	(10)	6.8	(26)	90	5.1	19.6	(6)	14.5	(1)	10	3/8 FNPT	26.5	(12)
10044 PVT	145	(10)	14	(53)	170	5.1	19.6	(6)	14.5	(1)	10	1/2 MNPT	19.8	(9)
10044 SST	145	(10)	14	(53)	170	5.1	19.6	(6)	14.5	(1)	10	3/8 FNPT	26.5	(12)
07065 PVT	102	(7)	17.2	(65)	200	5.1	19.6	(6)	14.5	(1)	10	1/2 MNPT	19.8	(9)
07065 SST	102	(7)	17.2	(65)	200	5.1	19.6	(6)	14.5	(1)	10	3/8 FNPT	26.5	(12)
07042 PVT	102	(7)	13.2	(50)	90	9.7	9.8	(3)	14.5	(1)	15	3/4 MNPT	21	(9.5)
07042 SST	102	(7)	13.2	(50)	90	9.7	9.8	(3)	14.5	(1)	15	1/2 FNPT	29.8	(13.5)
04084 PVT	58	(4)	26.7	(101)	170	9.7	9.8	(3)	14.5	(1)	15	3/4 MNPT	21	(9.5)
04084 SST	58	(4)	26.7	(101)	170	9.7	9.8	(3)	14.5	(1)	15	1/2 FNPT	29.8	(13.5)
04120 PVT	58	(4)	31.7	(120)	200	9.7	9.8	(3)	14.5	(1)	15	3/4 MNPT	21	(9.5)
04120 SST	58	(4)	31.7	(120)	200	9.7	9.8	(3)	14.5	(1)	15	1/2 FNPT	29.8	(13.5)
S2Cb HM														
16050 PVT	145	(10)	15.9	(60)	90	11.4	23	(7)	44	(3)	15	1/2 MNPT	33	(15)
16050 SST	232	(16)	15.9	(60)	90	11.4	23	(7)	44	(3)	15	1/2 FNPT	44	(20)
16090 PVT	145	(10)	28.5	(108)	160	11.4	23	(7)	44	(3)	15	3/4 MNPT	33	(15)
16090SST	232	(16)	28.5	(108)	160	11.4	23	(7)	44	(3)	15	1/2 FNPT	44	(20)
16130 PVT	145	(10)	34.3	(130)	200	10.9	23	(7)	44	(3)	15	3/4 MNPT	33	(15)
16130 SST	232	(16)	34.3	(130)	200	10.9	23	(7)	44	(3)	15	1/2 FNPT	44	(20)
07120 PVT	100	(7)	38	(144)	90	27.4	16	(5)	15	(1)	25	3/4 MNPT	35	(16)
07120 SST	100	(7)	38	(144)	90	27.4	16	(5)	15	(1)	25	3/4 MNPT	53	(24)
07220 PVT	100	(7)	69.7	(264)	160	27.7	16	(5)	15	(1)	25	3/4 MNPT	35	(16)
07220 SST	100	(7)	69.7	(264)	160	27.7	16	(5)	15	(1)	25	3/4 MNPT	53	(24)
04350 PVT	58	(4)	92.5	(350)	200	29.4	16	(5)	15	(1)	25	1 MNPT	35	(16)
04350 SST	58	(4)	92.5	(350)	200	29.4	16	(5)	15	(1)	25	1 MNPT	53	(24)
S3Cb HM														
120145 PVT	145	(10)	46	(174)	86/90	31.5	16	(5)	29	(2)	25	1 MNPT	49	(22)
120145 SST	174	(12)	46	(174)	86/90	31.5	16	(5)	29	(2)	25	1 MNPT	57	(26)
120190 PVT	145	(10)	60.2	(228)	124/120	31.5	16	(5)	29	(2)	25	1 MNPT	49	(22)
120190 SST	174	(12)	60.2	(228)	124/120	31.5	16	(5)	29	(2)	25	1 MNPT	57	(26)
120270 PVT	145	(10)	85.6	(324)	173/180	31.5	16	(5)	29	(2)	25	1 MNPT	49	(22)
120270 SST	174	(12)	85.6	(324)	173/180	31.5	16	(5)	29	(2)	25	1 MNPT	57	(26)
070410 PVT	100	(7)	130	(492)	86/90	95.1	13	(4)	14.5	(1)	32	1-1/2 MNPT	53	(24)
070410 SST	100	(7)	130	(492)	86/90	95.1	13	(4)	14.5	(1)	32	1-1/2 MNPT	64	(29)
070580 PVT	100	(7)	184	(696)	124/120	95.1	13	(4)	14.5	(1)	32	1-1/2 MNPT	53	(24)
070580 SST	100	(7)	184	(696)	124/120	95.1	13	(4)	14.5	(1)	32	1-1/2 MNPT	64	(29)
040830 PVT	58	(4)	264	(1000)	173/180	95.1	10	(3)	14.5	(1)	32	1-1/2 MNPT	53	(24)
040830 SST	58	(4)	264	(1000)	173/180	95.1	10	(3)	14.5	(1)	32	1-1/2 MNPT	64	(29)

New Sigma Control Series

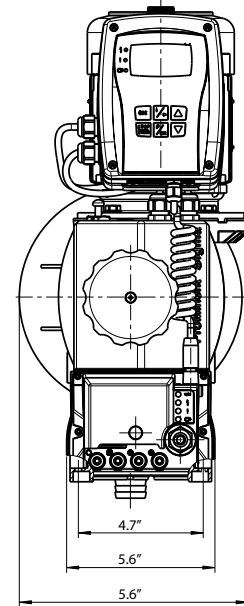
Dimensional Drawings



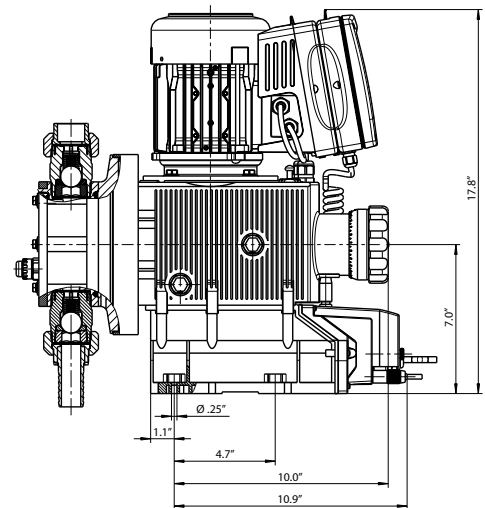
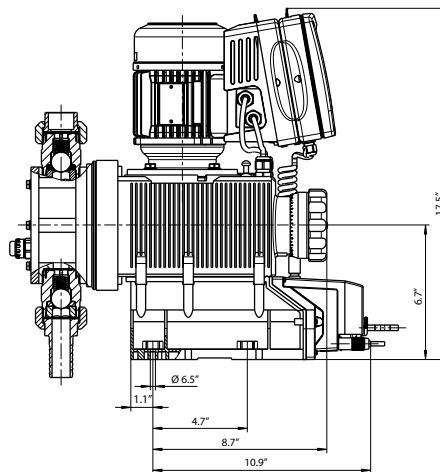
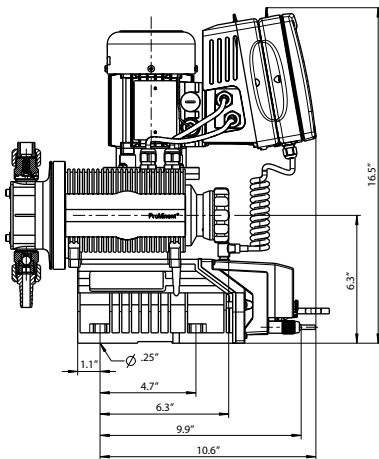
Sigma/ 1



Sigma/ 2



Sigma/ 3



ProMinent Fluid Controls, Inc.
136 Industry Drive • Pittsburgh, PA 15275 USA
(412) 787-2484 • Fax: (412) 787-0704
email: sales@prominent.us • www.prominent.us

PN: 7750425
Sigma_Control_Brochure.indd 03/08/2013

New Sigma Control Series

Flexible, efficient and safe metering



The entire **Sigma motor-driven metering pump** product range, control type **S1Cb/S2Cb/S3Cb**, has been equipped with intelligent features to provide a high level of operating convenience, safety and efficiency. The pump range comes with a removable operating unit and an automatic overpressure cut-off as standard. Metering profiles ensure optimum metering results. The mobile operating unit offers additional operating convenience ensuring that the pump can be quickly and easily adapted to any specific application.

An optimum metering result can be obtained with the adjustable metering profiles. Speed control with an integrated frequency converter can adapt the metering behavior to the chemical or application. Motion and speed profiles are also recorded, as is energy demand. The supply of energy depends on the amount of power needed and is controlled to suit the requirements of the application in hand.



Sigma/ 1



Sigma/ 2



Sigma/ 3

New Sigma Control Series

Identcode: Sigma/ 1 Control Type

StC6	Drive Type																
StC6	H	Main Drive, Diaphragm															
		Version: * Capacity:															
		12617	5.2 gph (20 l/h), 174 psi (12 bar)	03005	10.6 gph (40 l/h), 100 psi (7 bar)	NOTE: Refer to technical data for capacities and stroke rates											
		12605	11.1 gph (42 l/h), 174 psi (12 bar)	03049	10.2 gph (38 l/h), 100 psi (7 bar)												
		10050	13.9 gph (49 l/h), 145 psi (10 bar)	04004	20.7 gph (78 l/h), 50 psi (4 bar)												
		10029	6.0 gph (23 l/h), 145 psi (10 bar)	04020	31.7 gph (120 l/h), 50 psi (4 bar)												
		10044	1.4 gph (53 l/h), 145 psi (10 bar)														
		Liquid and material:															
		PV	PVDF max. 145 psi (10 bar)														
		SS	Stainless Steel														
		Seat:															
		T	PTFE seat														
		Diaphragm type:															
		0	Multi-layer safety diaphragm w/ optical break indicator														
		A	Multi-layer safety diaphragm with electrical signal														
		Liquid and version:															
		0	Without bleed valve, without valve spring														
		1	Without bleed valve, with valve spring														
		2	With bleed valve, without valve spring														
		3	With bleed valve, with valve spring														
		Hydraulic connections:															
		0	Standard connection														
		1	Union nut and PVD insert														
		2	Union nut and PP insert														
		3	Union nut and PVD insert														
		4	Union nut and stainless steel insert														
		7	Union nut and PVD tube nozzle														
		8	Union nut and stainless steel tube nozzle														
		Logic:															
		0	Standard with logic														
		Electrical Connection (± 10%):															
		U	100 - 240 V														
		Cable and plug with 6 ft (2 m) power cord, single phase:															
		A	6 ft European														
		C	6 ft Australia														
		D	6 ft USA														
		U	6 ft USA, 200 V														
		Relay:															
		0	No relay														
		1	1 power relay														
		2	Power relay + semiconductor relay														
		3	24-20 mA analog current output/power relay														
		Control variants:															
		0	Manual + Controller = PC + analog														
		1	Manual + Controller = PC + metering profile														
		5	An 1 = linear														
		6	An 1 = PROFIBUS DP interface (M12-plug)*														
		7	An 1 = CANopen**														
		Access Codes:															
		0	No access code														
		1	Access code														
		Operating unit / HMI:															
		0	HMI = 1.0' (0.5 m) cable														
		1	HMI = 6.0' (2.0 m) cable														
		2	HMI = 16.0' (5.0 m) cable														
		3	HMI = 32.0' (10 m) cable														
		X	Without HMI														
		Display monitor dynamic:															
		0	Display monitor dynamic														
		Language:															
		EN															
StC6	H	12617	PV	T	0	0	0	0	0	U	D	0	0	0	0	0	EN

Available with CE-certification (Option 04) or with CE-EMC (EMC certification) (Option 04)

* Requires option PROFIBUS-DP interface for control

** Proprietary for industrial use only

Identcode: Sigma/ 2 Control Type

S2Cb Drive Type																
S2Cb	H	Main Drive, Diaphragm														
		Version / Capacity:														
		16090	14.0 gph (50 l/h), 202.01 psi (10 bar)	07120	55.1 gph (148 l/h), 100 psi (7 bar)	NOTE: Refer to technical data for capacities and stroke rates										
		16090	20.5 gph (99 l/h), 202.01 psi (10 bar)	07390	10.5 gph (271 l/h), 100 psi (7 bar)											
		16100	55.0 gph (125 l/h), 202.01 psi (10 bar)	04050	55.0 gph (552 l/h), 50 psi (4 bar)											
		Liquid and material:														
		PV	PVDF max. 145 psi (10 bar)													
		SS	Stainless Steel													
		Seal:														
		T	PURE seal													
		Diaphragm type:														
		0	Multi-layer safety diaphragm w/ optical break indicator													
		A	Multi-layer safety diaphragm w/electrical signal													
		Liquid and version:														
		0	Without bleed valve, without valve spring													
		1	Without bleed valve, with valve spring													
		2	With bleed valve, without valve spring													
		3	With bleed valve, with valve spring													
		Hydraulic connections:														
		0	Standard connection													
		1	Union nut and PVDF insert													
		2	Union nut and PP insert													
		3	Union nut and PVDF insert													
		4	Union nut and stainless steel insert													
		7	Union nut and PVDF tube nozzle													
		8	Union nut and stainless steel tube nozzle													
		Logo:														
		0	Standard with logo													
		Electrical Connection (± 10%):														
		U	100 - 240 V													
		Cable and plug with 0.8 (2 m) power cond., single phase:														
		A	0 E European													
		C	0 E Australia													
D	0 E USA															
U	0 E USA, 200 V															
Relay:																
0	No relay															
1	1 power relay															
2	Power relay + semiconductor relay															
3	0-20 mA analog current output/power relay															
Control variant:																
0	Manual + Controller + PC + analog															
1	Manual + Controller + PC + metering profiles															
5	As 1 + timer															
6	As 1 + PROFIBUS DP interface (M12-plug)*															
7	As 1 + CANopen**															
A	Acid pump + CANopen															
L	Chlorite pump + CANopen															
W	Water pump + CANopen															
Access Codes:																
0	No access code															
1	Access code															
Operating unit (HMI):																
0	HMI + 1.0' (0.3 m) cable															
1	HMI + 0.5' (0.0 m) cable															
2	HMI + 10.0' (3.0 m) cable															
3	HMI + 22.0' (10 m) cable															
X	Without HMI															
Dosing monitor dynamic:																
0	Dosing monitor dynamic															
Language:																
														EN		
														EN		

Available with CE-certified Sigma 04 or with CE-CLASS II/III certified Sigma 04

* With the option PROFIBUS-DP programming is selected

** Please consult software/Packaging PDF

Identcode: Sigma/ 3 Control Type

Drive Type																
01C0	H	Main Drive, Diaphragm														
		Version: Capacity:														
		120145	62.5 gph (100 l/h), 174.0 psi (12 bar)	70410	132.1 gph (200 l/h), 182 psi (7 bar)	NOTE: Refer to technical data for capacities and stroke rates										
		120190	56.1 gph (88 l/h), 174.0 psi (12 bar)	70500	177.0 gph (270 l/h), 182 psi (7 bar)											
		120270	67.2 gph (106 l/h), 174.0 psi (12 bar)	80800	224.7 gph (340 l/h), 58 psi (4 bar)											
		Liquid end material:														
		PV	PVDF max. 145 psi (10 bar)													
		SD	Stainless Steel													
		Seat:														
		T	PTFE seat													
		Diaphragm type:														
		0	Multi-layer safety diaphragm w/ optical break indicator													
		A	Multi-layer safety diaphragm w/ electrical signal													
		Liquid end version:														
		0	Without bleed valve, without valve spring													
		1	Without bleed valve, with valve spring													
		2	With bleed valve, without valve spring													
		3	With bleed valve, with valve spring													
		Hydraulic connections:														
		0	Standard connection													
		1	Union nut and PVDF insert													
2	Union nut and PTFE insert															
3	Union nut and PVDF insert															
4	Union nut and stainless steel insert															
7	Union nut and PVDF tube nozzle															
8	Union nut and stainless steel tube nozzle															
Logo:																
0	Standard with logo															
Electrical Connection (± 10%):																
U	100 - 240 V															
Cable and plug with 6 ft (2 m) power cord, single phase:																
A	0 ft European															
C	0 ft Australia															
D	0 ft USA															
U	0 ft USA, 200 V															
Relay:																
0	No relay															
1	1 power relay															
5	Power relay - semiconductor relay															
8	24-20 mA analog current output/power relay															
Control variant:																
0	Manual + Controller + PC + analog															
1	Manual + Controller + PC + metering profile															
5	As 1 + Emar															
6	As 1 + PROFIBUS DP interface (M12-plug)															
7	As 1 + CANopen™															
A	Acid pump + CANopen															
L	Chlorite pump + CANopen															
W	Water pump + CANopen															
Access Code:																
0	No access code															
1	Access code															
Operating unit (HMI):																
0	HMI - 1.0" (0.5 m) cable															
1	HMI - 0.5" (0.5 m) cable															
2	HMI - 10.0" (3.0 m) cable															
3	HMI - 32.0" (10 m) cable															
X	Without HMI															
Dosing monitor dynamic:																
0	Dosing monitor dynamic															
Language:																
														EN		
														EN		

Available with 12-month subscription. Order by 01/01/2014. \$149.95. Please contact your account manager for more information.

What the authors found: The authors found that the use of a decision support system (DSS) can improve the accuracy of the diagnosis of a patient with a suspected diagnosis of a disease.

— **How much water is used?**