

Sigma X: Sigma/2 (S2Cb/S2Ba)

HMI Controller



The **ProMinent® Sigma/ 2** is a mechanically-actuated diaphragm metering pump capable of flow rates from **14.7 to 111 gph (56 - 420 l/h)** and pressures up to **232 psig (16 bar)**. 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 Sigma X features a removable HMI control unit with innovative click-wheel and 4 operating buttons. **Also available in basic (non-microprocessor based version) and explosion-proof models.**

Features & Benefits

- Certified to NSF/ANSI 61 (PVDF liquid ends)
- Variable AC frequency combined with digital stroking frequency
- Removable HMI unit with illuminated LCD, click-wheel and 4 operation buttons
- 3 LED's function as operation indicators, alarm indicator and fault indicator
- Integrated Timer (standard) and Data Logger
- Connection to PROFIBUS-DP interface
- Control via contact or analog signals
- Integrated multilayer safety diaphragm (standard) with visual or electrical rupture indicator

Applications

- Time controlled chemical addition in cooling water circuits
- Proportional chemical addition in water treatment (e.g. Sodium Hypochlorite for drinking water disinfection)
- Measurement dependent chemical addition (e.g. acid & caustic metering for pH neutralization in wastewater treatment)
- Pulse controlled metering from variable flow meters
- Chemical Process, Mining, Petrochemical, Heavy Industrial, Pharmaceutical, Water and Wastewater Treatment

Sigma X: Sigma/2 (S2Cb/S2Ba)

Capacity data: Sigma/ 2 Control Version

Capacity Data														
Pump Version	Capacity at Maximum Backpressure				Max. Stroking Rate	Output per Stroke	Pre-Primed Suction Lift		Max. Suction Pressure		Suction/Discharge Connector		Shipping Weight	
	psig	(bar)	gph	(l/h)			ft	(m)	psig	(bar)	in	(DN)	lbs	(kg)
S2Cb H														
16050 PVT	145	(10)	16.1	(61)	90	11.4	23	(7)	29	(2)	1/2 MNPT	(15)	33	(15)
16050 SST	232	(16)	14.8	(56)	90	10.4	23	(7)	29	(2)	1/2 FNPT	(15)	44	(20)
16090 PVT	145	(10)	28.8	(109)	160	11.4	23	(7)	29	(2)	3/4 MNPT	(15)	33	(15)
16090 SST	232	(16)	26.2	(99)	160	10.3	23	(7)	29	(2)	1/2 FNPT	(15)	44	(20)
16130 PVT	145	(10)	34.6	(131)	200	10.9	23	(7)	29	(2)	3/4 MNPT	(15)	33	(15)
16130 SST	232	(16)	34.1	(129)	200	10.9	23	(7)	29	(2)	1/2 FNPT	(15)	44	(20)
07120 PVT	102	(7)	39.6	(150)	90	27.4	16	(5)	15	(1)	3/4 MNPT	(25)	35	(16)
07120 SST	102	(7)	39.6	(150)	90	27.4	16	(5)	15	(1)	3/4 MNPT	(25)	53	(24)
07220 PVT	102	(7)	71.6	(271)	160	27.7	16	(5)	15	(1)	3/4 MNPT	(25)	35	(16)
07220 SST	102	(7)	71.6	(271)	160	27.7	16	(5)	15	(1)	3/4 MNPT	(25)	53	(24)
04350 PVT	58	(4)	93.3	(353)	200	29.4	16	(5)	15	(1)	1 MNPT	(25)	35	(16)
04350 SST	58	(4)	93.3	(353)	200	29.4	16	(5)	15	(1)	1 MNPT	(25)	53	(24)

Capacity data: Sigma/ 2 Basic Version

Capacity Data														
Pump Version	Capacity at Maximum Backpressure				Max. Stroking Rate	Output per Stroke	Pre-Primed Suction Lift		Max. Suction Pressure		Suction/Discharge Connector		Shipping Weight	
	psig	(bar)	gph	(l/h)			ft	(m)	psig	(bar)	in	(DN)	lbs	(kg)
S2Ba H														
16050 PVT	145	(10)	15.8	(60)	87	11.4	23	(7)	44	(3)	1/2 MNPT	(15)	33	(15)
16050 SST	232	(16)	14.7	(56)	87	11.4	23	(7)	44	(3)	1/2 FNPT	(15)	44	(20)
16090 PVT	145	(10)	28.0	(106)	158	11.4	23	(7)	44	(3)	3/4 MNPT	(15)	33	(15)
16090 SST	232	(16)	25.9	(98.4)	158	11.4	23	(7)	44	(3)	1/2 FNPT	(15)	44	(20)
16130 PVT	145	(10)	41.2	(156)	238	10.9	23	(7)	44	(3)	3/4 MNPT	(15)	33	(15)
16130 SST	232	(16)	39.0	(148)	238	10.9	23	(7)	44	(3)	1/2 FNPT	(15)	44	(20)
07120 PVT	102	(7)	39.6	(150)	87	27.4	16	(5)	15	(1)	3/4 MNPT	(25)	35	(16)
07120 SST	102	(7)	39.6	(150)	87	27.4	16	(5)	15	(1)	3/4 MNPT	(25)	53	(24)
07220 PVT	102	(7)	69.7	(264)	158	27.4	16	(5)	15	(1)	3/4 MNPT	(25)	35	(16)
07220 SST	102	(7)	69.7	(264)	158	27.4	16	(5)	15	(1)	3/4 MNPT	(25)	53	(24)
04350 PVT	58	(4)	111.0	(420)	238	29.4	16	(5)	15	(1)	1 MNPT	(25)	35	(16)
04350 SST	58	(4)	111.0	(420)	238	29.4	16	(5)	15	(1)	1 MNPT	(25)	53	(24)

© 2019 ProMinent Fluid Controls, Inc. All Rights Reserved. PN: 7750409 Sigma_2.indd rev8 12/16/2020