

# Sigma/ 2 Series

New Technology, Durable Design



The **ProMinent® Sigma/ 2** is a mechanically-actuated diaphragm metering pump capable of flow rates from **14.8 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 pump series comes with a removable HMI operating unit for complete system integration. **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 large illuminated LCD
- 3 LED's function as operation indicators, alarm indicator and fault indicator
- Connection to PROFIBUS®-DP interface
- Control via contact or analog signals
- Reduced power consumption due to control of speed profile and pump demand
- 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/ 2 Series

## Capacity data: Sigma/ 2 Control Version

Capacity Data														
Pump Version	Capacity at Maximum Back Pressure				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)
<b>S2Cb H</b>														
16050 PVT	145	(10)	16.1	(61)	90	11.4	23	(7)	44	(3)	1/2 MNPT	(15)	33	(15)
16050 SST	232	(16)	14.8	(56)	90	11.4	23	(7)	44	(3)	1/2 FNPT	(15)	44	(20)
16090 PVT	145	(10)	28.8	(109)	160	11.4	23	(7)	44	(3)	3/4 MNPT	(15)	33	(15)
16090 SST	232	(16)	26.2	(99)	160	11.4	23	(7)	44	(3)	1/2 FNPT	(15)	44	(20)
16130 PVT	145	(10)	35.9	(136)	200	10.9	23	(7)	44	(3)	3/4 MNPT	(15)	33	(15)
16130 SST	232	(16)	33	(125)	200	10.9	23	(7)	44	(3)	1/2 FNPT	(15)	44	(20)
07120 PVT	100	(7)	39.1	(148)	90	27.4	16	(5)	15	(1)	3/4 MNPT	(25)	35	(16)
07120 SST	100	(7)	39.1	(148)	90	27.4	16	(5)	15	(1)	3/4 MNPT	(25)	53	(24)
07220 PVT	100	(7)	71.6	(271)	160	27.7	16	(5)	15	(1)	3/4 MNPT	(25)	35	(16)
07220 SST	100	(7)	71.6	(271)	160	27.7	16	(5)	15	(1)	3/4 MNPT	(25)	53	(24)
04350 PVT	58	(4)	93	(352)	200	29.4	16	(5)	15	(1)	1 MNPT	(25)	35	(16)
04350 SST	58	(4)	93	(352)	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 Back Pressure				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)
<b>S2Ba H</b>														
16050 PVT	145	(10)	15.9	(60)	87	11.4	23	(7)	44	(3)	1/2 MNPT	(15)	33	(15)
16050 SST	232	(16)	15.1	(57)	87	11.4	23	(7)	44	(3)	1/2 FNPT	(15)	44	(20)
16090 PVT	145	(10)	28	(106)	158	11.4	23	(7)	44	(3)	3/4 MNPT	(15)	33	(15)
16090 SST	232	(16)	25.9	(98)	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)	39.1	(148)	238	10.9	23	(7)	44	(3)	1/2 FNPT	(15)	44	(20)
07120 PVT	100	(7)	39.6	(150)	87	27.4	16	(5)	15	(1)	3/4 MNPT	(25)	35	(16)
07120 SST	100	(7)	39.6	(150)	87	27.4	16	(5)	15	(1)	3/4 MNPT	(25)	53	(24)
07220 PVT	100	(7)	69.7	(264)	158	27.4	16	(5)	15	(1)	3/4 MNPT	(25)	35	(16)
07220 SST	100	(7)	69.7	(264)	158	27.4	16	(5)	15	(1)	3/4 MNPT	(25)	53	(24)
04350 PVT	58	(4)	111	(420)	238	29.4	16	(5)	15	(1)	1 MNPT	(25)	35	(16)
04350 SST	58	(4)	111	(420)	238	29.4	16	(5)	15	(1)	1 MNPT	(25)	53	(24)