



DIAPHRAGM AND PLUNGER METERING PUMPS



>Bran+Luebbe[®]

Part of SPX Corporation (NYSE: SPW), the Flow Technology segment designs, manufactures, installs and services highly engineered solutions used to process, blend, meter and transport fluids, in addition to air and gas filtration and dehydration. The segment supports the food and beverage, dairy, pharmaceutical, oil and gas, energy, and industrial markets worldwide.

Based in Charlotte, North Carolina, SPX Corporation (NYSE: SPW) is a global Fortune 500 multi-industry manufacturing leader with over \$5 billion in annual revenue, operations in more than 35 countries and over 15,000 employees. The company's highly-specialized, engineered products and technologies are concentrated in Flow Technology and energy infrastructure. Many of SPX's innovative solutions are playing a role in helping to meet rising global demand for electricity and processed foods and beverages, particularly in emerging markets. The company's products include food processing systems for the food and beverage industry, power transformers for utility companies, and cooling systems for power plants. For more information, please visit www.spx.com.

For more than 75 years, Bran+Luebbe - now SPX Flow Technology – has been providing customers with high quality metering, processing and analysing equipment.

As part of the global SPX Corporation, we are one of the world's most reputable manufacturers of metering and process pumps, process systems as well as analyzing technologies. Our engineers have comprehensive process and applications knowledge across a wide range of markets. This has resulted in product innovations and developments which harness the latest technology whilst meeting the highest quality standards.

ProCam Metering Pumps

ProCam is an economical range of metering pumps, designed for use in many industrial or hygienic processes. The mechanically actuated diaphragm pumps offer safe and reliable operation for hazardous liquids with a plunger pump head option for high pressure, low flow duties. The pumps are suitable for single & multi-stream processes and auto-control using variable speed, electric stroke or a combination of both.

THE IDEAL MODEL FOR A WIDE RANGE OF APPLICATIONS

SAMPLES OF EXECUTED PUMPS











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Applications

CHEMICAL PROCESSING

Power & Engergy

FOOD & BEVERAGE

PHARMACEUTICAL & BIOTECHNOLOGY

WATER AND WASTEWATER TREATMENT











ProCam Plunger Metering Pumps



Plunger metering pump with stainless steel pump head and manual flow rate control.





Type PS 3 up to PS 25 (dimensions are max. dimensions) Economical and reliable, the robust and compact design of the

ProCam plunger pump allows high operational security.

AT A GLANCE

- Economic metering of non-hazardous fluids
- Operating pressure up to 80 bar
- Flow rates from 0.16 to approx. 60 l/h
- Robust gear technology with proven lost motion design for continuous operation at max. flow / pressure conditions
- Linear stroke adjustment with manual or electric options
- High operational security

GENERAL

- Gear box in a rugged cast iron housing
- Integrated worm gear
- Splash lubrication
- Electric motor (IEC, IP55)

STANDARD

- Single pump with plunger pump head
- Manual stroke adjustment
- Electric motor with fixed speed
- Materials for pump head and valve housing - Stainless steel

OPTIONS

- Multiple pumps with up to 6 plunger pump heads are available
- Can be combined with ProCam diaphragm metering pump
- Electric stroke length adjustment (also with integrated controller)
- Electric motor with variable speed
- Hazardous area design (up to Zone 1, IIC, T4)

FLOW RATE AND PRESSURES

MAX. FLOW RATE (L/H)							
ТҮРЕ		STROKE FREQ	MAX. PRESSURE	MATERIAL IN CONTACT WITH METERED LIQUID			
	50	72	100	144	bar		
PS 3	0.16	0.23	0.32	0.46	80	1.4571	
PS 5	0.45	0.64	0.90	1.29	80	1.4571	
PS 8	1.15	1.65	2.30	3.30	80	1,4571	
PS 10	3.40	4.80	6.70	9.70	80	1.4571/1.4581	
PS 16	8.60	12,40	17,20	24,80	80	1,4571/1.4581	
PS 25	21.00	30.20	42.00	60.40	32	1.4571/1.4581	







ProCam Diaphragm Metering Pumps



Designed for operating pressures up to 20 bar and flow rates up to 3,000 l/h





Double headed pump design 2 DS/2 DP 850 - 2 DS/2 DP 3000 (dimensions are max. dimensions)

Our classic series of mechanically actuated double diaphragm pumps for low to medium range applications, brings the advantages and security of the double diaphragm concept to a wide variety of applications at an economical price.

AT A GLANCE

- Hermetically sealed pump head with mechanically operated PTFE double diaphragm allowing
- safe metering of hazardous liquids
- contamination free operation (important in potable water production)
- Allows economic operation without loss in operating safety and reliability
- 2 years warranty of PTFE double diaphragm
- Diaphragm condition monitoring
- Outstanding corrosion resistance due to high quality PTFE double diaphragm

GENERAL

- Gear box in a rugged cast iron housing
- Integrated worm gear
- Splash lubrication
- Electric motor (IEC, IP55)

STANDARD

- Diaphragm pump with a single pump head
- Manual stroke adjustment
- Drive with fixed speed
- Materials for pump head and valve housing - Stainless steel
- PVC

OPTIONS

- Multiple pumps with up to 6 pump heads are available (valid for type DS/DP15 – DS/DP500) or 2 pump heads (valid for type DS/DP850 and DS/DP3000)
- Electric stroke length adjustment (also with integrated controller)
- Electric motor with variable speed
- Hazardous area design (up to Zone 1, IIC, T4)

FLOW RATE AND PRESSURE MAX. FLOW RATE (L/H)								
ТҮРЕ	STROKE FREQUENCY 1/MIN MAX. PRESSURE							
	50	72	100	144	200	bar		
DS/DP 15	5	7,5	10	15		20		
DS/DP 50	17,5	25	35	50		10		
DS/DP 100	35	50	70	100		4		
DS/DP 200	70	100	140	200		12		
DS/DP 500	175	250	350	500		5		
DS/DP 850	300	430	600	860	1200	3		
DS/DP 3000	1040	1500	2080	3000		5		

* Operating pressure for plastic pump heads: 10 bar. With multiple pumps (4 - 6 heads) the max. operating pressure is only 50% of the indicated pressure.







ProCam Hygienic



Diaphragm pump EHEDG* certified – designed according to EHEDG guidelines.

*European Hygenic Engineering and Design Group.

AT A GLANCE

- CIP (cleaning-in-place) at 83°C
- Covers requirements in hygienic and sterile applications
- Specifically designed for applications in the pharmaceutical industry, biotechnology, cosmetics, personal care, food and beverage industry
- Flexible multi-pump head design

FACTS

- Metering pump with PTFE double diaphragm (FDA approved) and diaphragm condition monitoring by pressure switch
- Hygienic valve design
- Little residence time in the product chamber of the pump head
- Double diaphragm and valve gaskets are made of PTFE (FDA)
- Coating according to FDA requirements
- Front cover, valves, connections in material SS 316 L with surface roughness RA 0.8 (optional Ra 0.4)







FLOW RATE AND PRESSURES								
ТҮРЕ	S	TROKE FREC	UENCY 1/MI	N	MAX. PRESSURE*	CONNECTIONS		
	50	72	100	144	bar			
DS 15	5	7.5	10	15	20	1⁄2" Clamp		
DS 50	17.5	25	35	50	10	1/2" Clamp		
DS 100	35	50	70	100	4	1/2" Clamp		
DS 200	70	100	140	200	12	1⁄2" Clamp		
DS 500	175	250	350	500	5	1" Clamp		

* With multiple pumps (4 - 6 heads) the max. operating pressure is only 50% of the indicated pressure.



ProCam Compact Metering Station



Compact design – based on the ProCam metering pump this is a convenient solution for chemical preparation and metering.

SOLID DESIGN

- Stable base plate for pumps up to 50 kg
- Fluid temperature up to 60°C
- Tank UV stabilised for outdoor use
- Polyethylene tank material corrosion resistant against many chemicals
- Brackets for floor mounting available

COMPLETE SOLUTION AND OPTIONS

- Tank sizes from 60 to 500 litres (or on request)
- Standard equipment includes metering pump, tank, suction pipe, inlet valve, manual stirrer and stable mounting plate for pumps
- Easy to read liquid level due to scale moulded into the tank wall
- Wide filling port with manual screw lid for easy handling

Options:

- Motor driven stirrer
- Level switches (1 or 2 contacts)
- Pressure relief valve with return to the tank
- Tank drain



- 1 ProCam metering pump
- 2 Tank (PE)
- 3 Base plate (PVC)
- 4 Suction pipe (PVC)
- 5 Foot valve (PVC)
- 6 Manual stirrer (PVC)
- 7 Option: Motor driven stirrer
- 8 Option: Level switches
- 9 Option: Pressure relief valve
- 10 Option: Drain
- 11 Option: 4 brackets (PE) for floor mounting

AT A GLANCE

- Chemical industry e.g. metering of additives or inhibitors
- Water treatment plants
- CIP systems in the food & beverage industry
- Applications in the galvanizing industry
- Preparation of fertilizer solutions

VOLUME AND DIMENSIONS							
TANK	ØA	В	C1	C2	D		
60	450	545	925	965	1/2"		
100 I	470	730	110	1150	1/2"		
200	610	875	1255	1295	1/2"		
300	680	950	1330	1370	1"		
500 I	830	1065	1445	1485	1"		







ProCam

DIAPHRAGM AND PLUNGER METERING PUMPS

THE PRODUCT RANGE - MORE EXAMPLES OF BRAN+LUEBBE PRODUCTS WITH HIGH QUALITY STANDARD, INNOVATION AND KNOW-HOW.



Metering pumps for all process areas where liquids are metered and mixed. NOVADOS



Process pumps for large flow rates and high operating pressures NOVAPLEX MEGANIZER High pressure homogenizer



Dynamic in-line mixer for gentle but intensive mixing PENTAX PENTAX Hygienic



Process systems as a complete solution for increased productivity and quality AutoBlend Metering and mixing systems



Oil & Gas systems to aid oil & gas recovery onshore and offshore Solar Panel Packages Chemical Injection Systems

Flow Control Device Panels



On-line Analyzers for use in water and effluent treatment PowerMon PowerMon S PowerMon Compact

Global locations

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