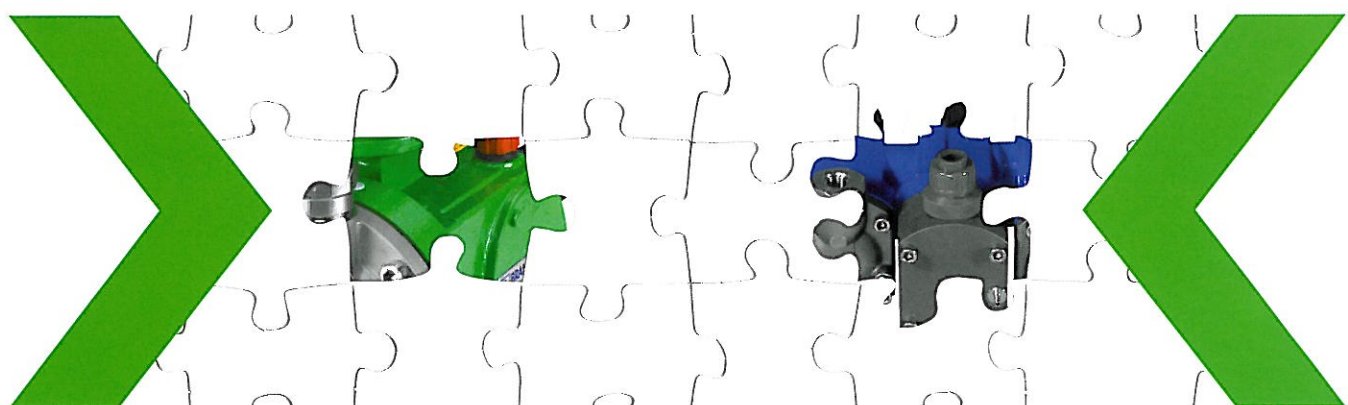


ProCam Smart



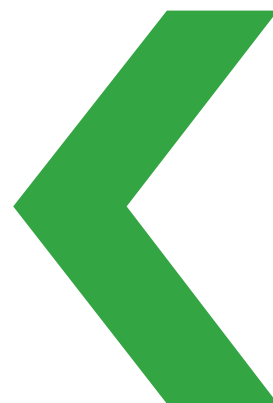
A Solution fit for your Processes



Smart Standard

With ProCam Smart Bran+Luebbe offers a high quality, economic pump for the customer with less demanding applications.

For basic dosing pump duties and a “Smart” economic solution, select **ProCam Smart**.



Performance is not compromised as the pump range uses the well proven ProCam design to achieve long lasting reliable operation, as expected from all Bran+Luebbe pumps.

Standardisation means not only low investment, but as most of the components are identical and interchangeable, spares can be minimized leading to low storage cost and high availability.

Smart Series



ProCam Smart DS 15



ProCam Smart DS 50



ProCam Smart DS 200



ProCam Smart DS 500

Flow Rate and Pressure

ProCam Smart Type	max. flowrate* (l/h) stroke frequency min ⁻¹				max. pressure	connections	Motor power kW
	50	72	100	144	bar		230/400 V
DS 15	5	7,5	10	15	20	G 3/8"	0,18
DS 50	17,5	25	35	50	10	G 3/8"	0,18
DS 200	70	100	140	200	10	G 1/2"	0,55
DS 500	175	250	350	500	6	G 1"	0,75

* Values at 100% volumetric efficiency

Article Number (please use when ordering)

ProCam Smart Type	stroke frequency min ⁻¹			
	50	72	100	144
DS 15	440234	440233	440232	440231
DS 50	440238	440237	440236	440235
DS 200	440242	440241	440240	440239
DS 500	440246	440245	440244	440243

Smart Applications

ProCam Smart in Energy Production

Applications

- Chemical degassing
- Oxygen scavenging
- Corrosion inhibition
- Caustification
- Decarbonizing

Metered fluids

- Hydrazine, Levoxine, Helamin
- Hydrazine, Levoxine, Helamin
- Hydrogin peroxide (H2O2), Helamin
- Ammonia (NH₃)
- Lime



ProCam Smart in Water and Sewage Treatment

Applications

- Flocculation
- Fluorodizing
- pH-control
- Oxidation

Metered fluids

- Activated Silica (SiO₂)
- Fluorides
- Caustic (NaOH)
- Lime
- Sulphuric Acid (H₂SO₄)
- Potassium Permanganate (KMnO₄)



ProCam Smart in the Food and Beverage Industry

Applications

- CIP – Cleaning
- Colouring of food
- Flavouring
- Soft Drinks

Metered fluids

- NaOH, Nitric acid (HNO₃)
- Food certified colors
- Fragrances, Essences,
- Fragrances, Essences, Oils, Water



ProCam General applications

- Chemical Industry
- Textile Industry
- Paper Industry and Wood Processing
- Plastic and Building Chemicals



The ProCam Smart

the economic multipurpose alternative.

Applications:

- General purpose metering pump for standard harmless as well as harmful fluids
- Economic alternative by standardisation without loss of performance

Advantages:

- Hermetically closed pump design
- Diaphragm head with mechanically operated PTFE double-diaphragm
- Diaphragm status control by hose nipple

Applications:

- Municipal water treatment
- Energy production
- General applications in the chemical industry



Materials
(product wetted parts)

- Stainless Steel

Pump connections

- ID- Thread DIN ISO 228

Pump gear

- Robust cast iron gearbox
- Metallic gear components

Stroke adjustment

- Manual

Type of gear

- Integrated worm- wheel/ -shaft reduction

Lubrication

- Splash lubrication

Drive

- Fixed speed
- Standard IEC motors, IP 55

Operating Pressure / Flowrate

- Diaphragm pump heads: up to 20 bar
- Flow rate: up to 500 l/h

The ProCam

our flexible solution for more demanding requirements.

Applications:

- Flexible metering pump for all liquids and more demanding requirements
- Easy to fulfill customer requirements. Building block system including useful options including customer specific documentation

Advantages

- Hermetically sealed pump design
- Diaphragm head with mechanically operated PTFE double-diaphragm
- Diaphragm status control

Applications

- Adjustable to formulations by using the building block system
- Chemical / petro-chemical industry
- Food and beverage industry
- Pharmaceutical / cosmetic industry
- Energy production

Additional designs:

- ProCam-plunger pumps
- ProCam Sanitary
- ProCam Hygienic (EHEDG)



Materials
(product wetted parts)

- Stainless Steel
- Plastic (PVC, PP and PVDF)

Pump connections

- ID- Thread DIN ISO 228 (standard)
- Flange DIN / ANSI (optional)
- NPT (optional)
- Food connection DIN 11851 (optional)
- SMS (optional)

Diaphragm status control

- Hose nipple (standard)
- Pressure gauge (optional)
- Pressure switch, EEX i (optional)

Pump gear

- Robust cast iron gearbox
- Metallic gear components

Stroke adjustment

- Manual (standard)
- Electric motor (optional)
- Electric motor with integrated controller Input / output signal 0 – 20 mA (optional)

Flexible building block system

- Multiple pumps with up to 6 pump heads by combining matching gear / pump head units

Type of gear

- Integrated worm- wheel/ -shaft reduction

Lubrication

- Splash lubrication

Drive

- Fixed speed
- Variable speed drive
- Execution for hazardous areas

ATEX Certification

- Zone 1: CE Ex II 2G c IIB T4 (also applicable for plastic pumpheads)
- Zone 2: CE Ex II 3G c IIC T4

Operating Pressure / Flow rate

- Diaphragm pump heads: up to 20 bar / up to 3000 l/h
- Plunger pump heads: up to 80 bar / up to max 60.5 l/h

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