

# PDP Series Process plunger & sandwich (double) diaphragm metering pumps



**BEDU**  
≡ POMPEN ≡

**DOSEURO®**

*The right dosing choice*



# Process plunger & sandwich (double) diaphragm metering pumps

## PDP SERIES

PDP series dosing pumps are designed according to **API 675 standards**.

They comply with ATEX standard, therefore they can be installed in classified area.

Mechanism is **NO-LOST MOTION** with an internal worm gear, fully oil bath lubricated.

## VERSATILITY

Different sizes are available to suit many application ranges.

It is possible to couple different pumps independently from the size and stroke number to obtain multi-heads unit.

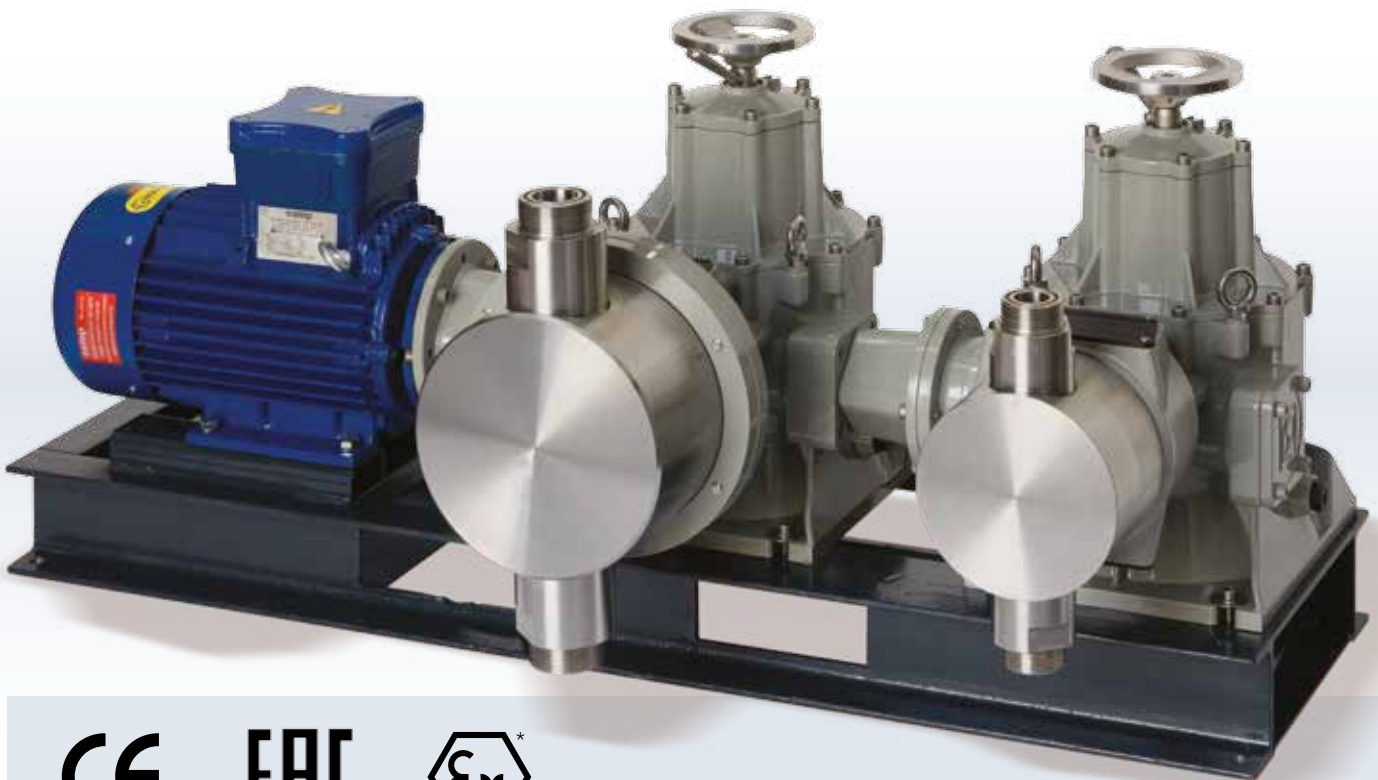
Using a wide range of material for wetted parts makes possible to satisfy any kind of dosing/metering application.

## RELIABILITY

As designed according to API 675 standard pumps Linearity & repeatability  $\pm 3\%$  are granted within 10-100% of rated capacity and Accuracy  $\pm 1\%$  in the same range.

## QUALITY

DOSEURO constant product development, updating production techniques, everlasting quality control and rigor testing at all production stages, grants high standard quality products.



\* available for selected products

## APPLICATION

Oil & gas



Power generation



Chemical



Petrochemical



Pharmaceutical



Pulp & Paper



## PDP series

# AI Plunger metering pump

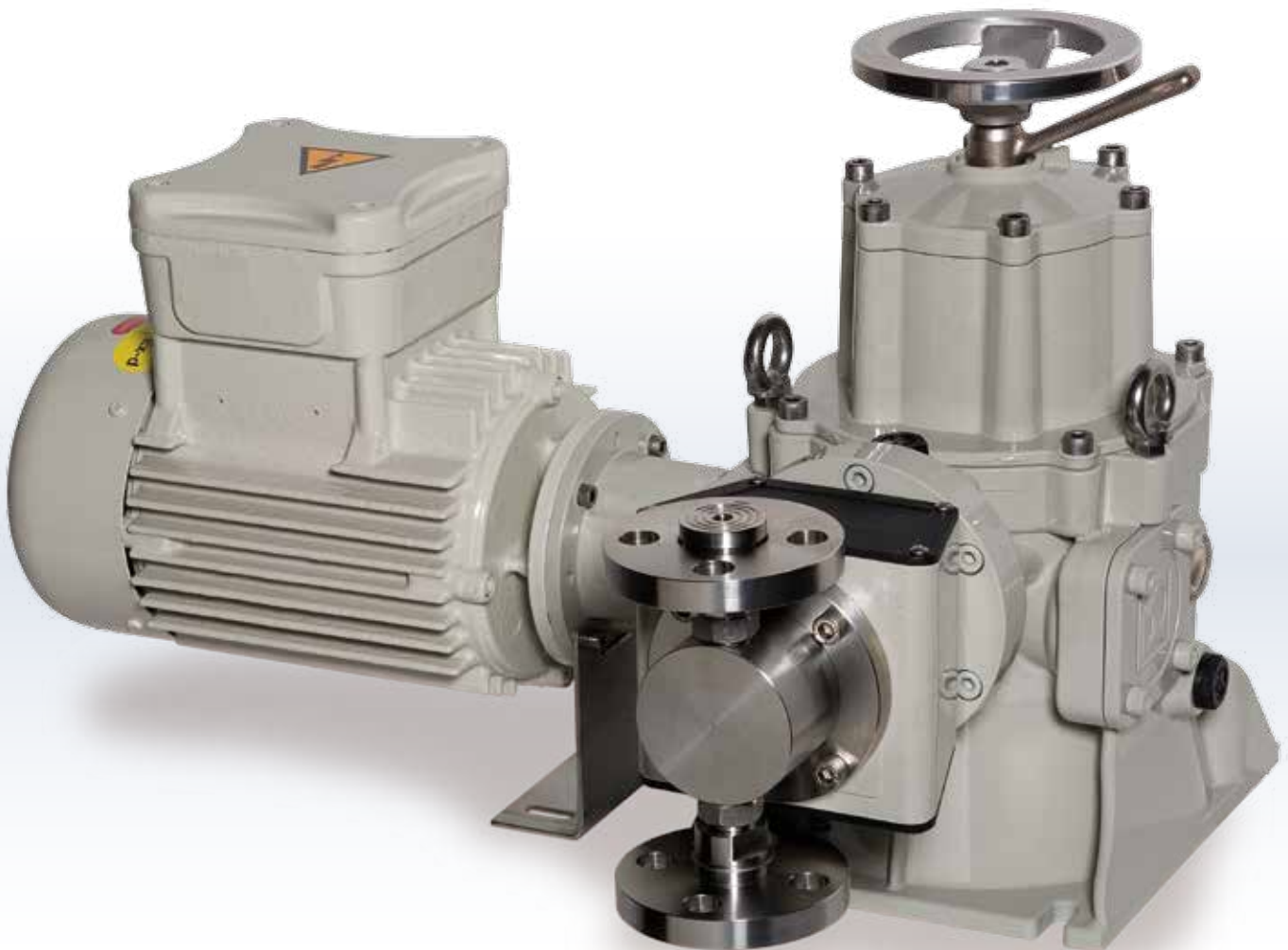
Simple design makes them reliable and easy for on-site maintenance.

They are normally used when:

- The dosed liquid is non-abrasive solution
- A drip proof system is not essential
- High pressure is required
- Flushing or leakage recovery system are requested (optional).

Model	Max Capacity in Lt/h	Max pressure in Barg
A I 175	385	50
A I 250	1265	40
A I 350	3569	40
AP A I 175	44	230
AP A I 250	160	230
AP A I 350	477	250

Note: higher pressures are available



# SDI Sandwich Hydraulic (double) diaphragm metering pump

Best pumps solution for processes and applications that are requiring high safety and accuracy standard.

A built-in safety valve is installed in the hydraulic circuit, in order to protect the diaphragm against over pressure.

The peculiarity of this pump is the special sandwich diaphragm and the reliability of the diaphragm rupture detection system that can be via pressure gauge, pressure switch or pressure transmitter.

They are normally used when:

- The dosed liquid contains small amounts of suspended solids
- No leakage are accepted
- The dosed liquid is a toxic or hazardous solution
- High pressure is required

Model	Max Capacity in Lt/h	Max pressure in Barg
SD I 175	390	14
SD I 250	1264	14
SD I 350	4028	14
AP SD I 175	231	40
AP SD I 250	711	80
AP SD I 350	1496	56

Note: higher pressures are available



# ADJUSTMENT

## Manual

0-100% of the stroke length hand wheel can be carried with the pump at rest or in operation.

(can be equipped with gravitational dial hand-wheel)

## E Type

Simple and basic electric actuator.

input 4-20mA; 0-10V or 4-20mA output.

IP55

Manual emergency override

Power supply 24V AC/DC

NB: available on selected models



## E1 Type

Electric actuator.

input and output 4-20mA (special BUS upon request)

IP67

Manual emergency override

Power supply 1Ph 110/230V 50/60Hz (other option upon request)

ATEX comply (upon request)



## E2 Type

Electric actuator.

input and output 4-20mA (special BUS upon request)

IP68

Manual emergency override

Power supply 3Ph 400V50/60Hz (other option upon request)

ATEX comply (upon request)

NB: available on selected models



## P Type

Pneumatic actuator

Air instrument 3-15PSI

Air supply: 4-6 Bar

ATEX comply (upon request)



## SPECIAL SOLUTION

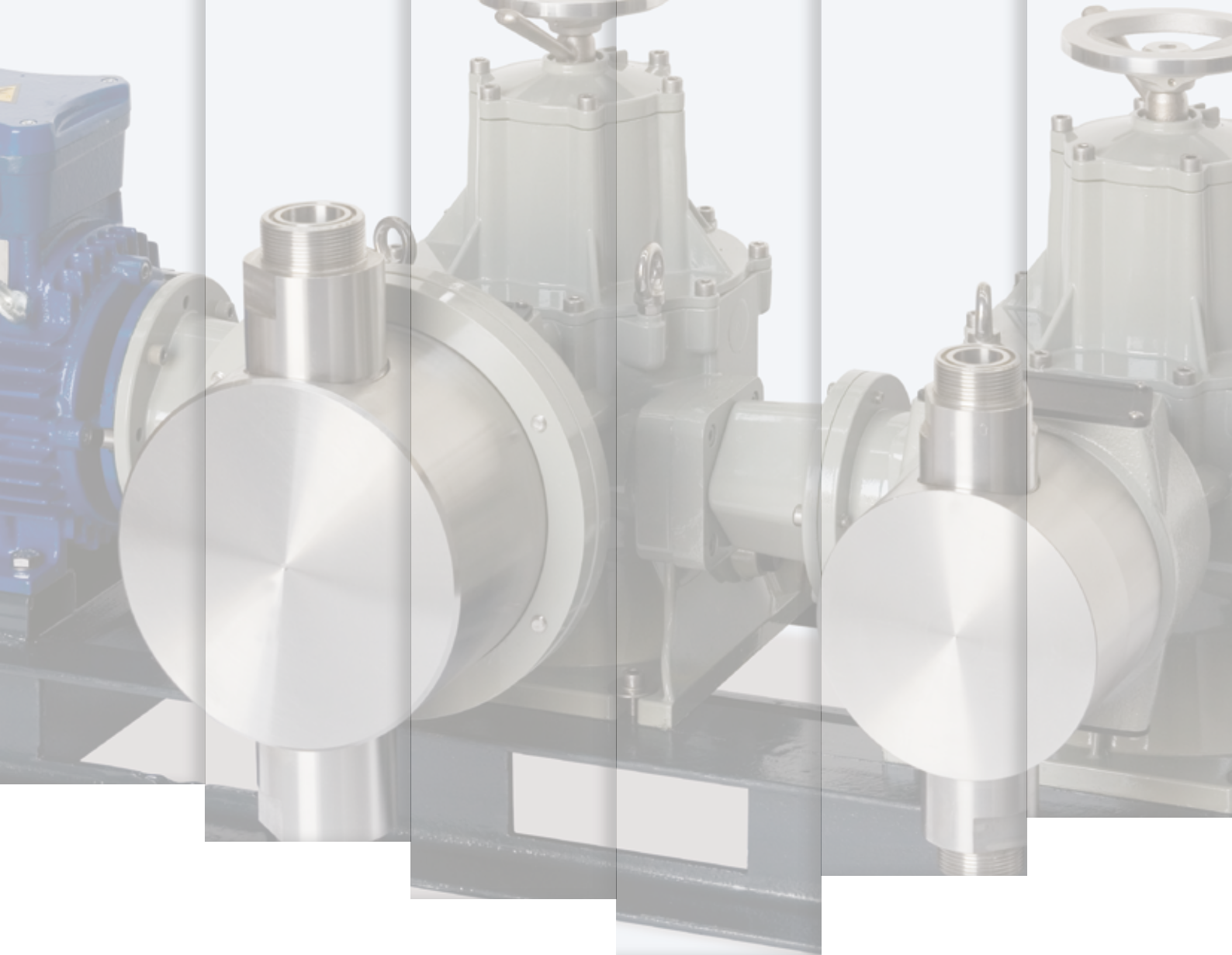
DOSEURO customer orientation and flexibility allow us to develop and supply customized products according to special needs.

Double effect plunger pump; smooth flow with higher flow rate



Sandwich hydraulic actuated diaphragm; heated pump head and valves; ATEX comply.





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