

CHEWATEC DS III

UNIVERSAL SOLUTION FOR YOUR METERING



Solenoid membrane dosing pump

With extended functionality

CHEWATEC DS III

CHEWATEC DS III is the all-purpose solenoid metering pump for metering liquid media in water treatment and chemical processes: Solenoid driven metering pump OPDa. Cost-effective, overload-proof, adaptable to existing signal transducers with illuminated LC display for secure setting of all operation parameters.

Features:

- Manual operation
- External contact control with pulse division and multiplication
- Analogue control 0/4 – 20 mA
- Input for 2-stage level switch
- Dosing monitor input, adjustable error stroke counter
- Universal power supply 100 - 230 V, 50/60 Hz
- Low voltage versions 12-24 V and 24 V DC
- Optional relay, easily retrofittable

| | | |
|---|------------------------|---------------------------------------------|
| ✓ | Capacity range: | 0,74 – 32 l/h |
| ✓ | Backpressure: | 25 – 2 bar |
| ✓ | IP protection: | IP65 |
| ✓ | Stroke length: | 30 – 100% |
| ✓ | Stroke frequency: | 25, 50, 100% |
| ✓ | Material: | PP, PVDF acryl, PTFE, stainless steel |
| ✓ | Control: | Manual Pulse signal 0/4-20 mA |
| ✓ | Inputs: | External freq. 2-st. level switch |

MATERIAL VERSIONS

| | Dosing head | Suction/discharge valve | Ball seat | Seals | Balls |
|-----|----------------------------|----------------------------|-----------|-------|---------|
| PPE | Polypropylene | Polypropylene | EPDM | EPDM | ceramic |
| PPB | Polypropylene | Polypropylene | FPM | FPM | ceramic |
| NPE | Acrylic | PVC | EPDM | EPDM | ceramic |
| NPB | Acrylic | PVC | FPM | FPM | ceramic |
| NPT | Acrylic | PVDF | PVDF | PTFE | ceramic |
| PVT | PVDF | PVDF | PVDF | PTFE | ceramic |
| TTT | PTFE with carbon | PTFE with carbon | ceramic | PTFE | ceramic |
| SST | Stainless steel no. 1.4404 | Stainless steel no. 1.4404 | ceramic | PTFE | ceramic |

CHEWATEC ACCESSORIES



Foot Valve

With suction filter and non-return ball for connecting to suction line



Injection valve

With spring-loaded non-return ball for metering into open and closed systems



Injection lance

For metering into large pipes, when handling crystallizing media



Suction lance

With foot valve and level switch, for non-returnable containers or metering tanks.

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CAPACITY DATA

| Pump type | Capacity at max. back pressure | | | Capacity at medium back pressure | | | Connector | Suction lift mWs** |
|----------------------------------------------------------|--------------------------------|-------|--------|----------------------------------|-------|--------|-----------|-----------------------|
| | bar | l/h | ml/Hub | bar | l/h | ml/Hub | | |
| OPDa1000 | 10 | 0,74 | 0,07 | 5 | 0,82 | 0,08 | 6x4 | 6 |
| OPDa1601 | 16 | 1,10 | 0,10 | 8 | 1,40 | 0,13 | 6x4 | 6 |
| OPDa1602 | 16 | 2,10 | 0,19 | 8 | 2,50 | 0,24 | 6x4 | 6 |
| OPDa1005 | 10 | 4,40 | 0,41 | 5 | 5,00 | 0,46 | 8x5*** | 6 |
| OPDa0708 | 7 | 7,10 | 0,66 | 3,5 | 8,40 | 0,78 | 8x5 | 6 |
| OPDa0413 | 4 | 12,30 | 1,14 | 2 | 14,20 | 1,31 | 8x5 | 3 |
| OPDa0220 | 2 | 19,00 | 1,76 | 1 | 20,90 | 1,93 | 12x9 | 2 |
| OPDa1605 | 16 | 4,10 | 0,38 | 8 | 4,90 | 0,45 | 8x5*** | 6 |
| OPDa1008 | 10 | 6,80 | 0,63 | 5 | 8,30 | 0,76 | 8x5 | 6 |
| OPDa0713 | 7 | 11,00 | 1,02 | 3,5 | 13,10 | 1,21 | 8x5 | 4 |
| OPDa0420 | 4 | 17,10 | 1,58 | 2 | 19,10 | 1,77 | 12x9 | 3 |
| OPDa0232 | 2 | 32,00 | 2,96 | 1 | 36,20 | 3,35 | 12x9 | 2 |
| OPDa with self degassing dosing head with bypass* | | | | | | | | |
| OPDa1601 | 16 | 0,59 | 0,06 | 8 | 0,78 | 0,07 | 6x4 | 1,8 |
| OPDa1602 | 16 | 1,40 | 0,13 | 8 | 1,70 | 0,16 | 6x4 | 2,1 |
| OPDa1005 | 10 | 3,60 | 0,33 | 5 | 4,00 | 0,37 | 8x5 | 2,7 |
| OPDa0708 | 7 | 6,60 | 0,61 | 3,5 | 7,50 | 0,69 | 8x5 | 2 |
| OPDa0413 | 4 | 10,80 | 1,00 | 2 | 12,60 | 1,17 | 8x5 | 2 |
| OPDa0220 | 2 | 16,20 | 1,50 | 1 | 18,00 | 1,67 | 12x9 | 2 |
| OPDa1605 | 16 | 3,30 | 0,31 | 8 | 3,80 | 0,35 | 8x5 | 3 |
| OPDa1008 | 10 | 6,30 | 0,58 | 5 | 7,50 | 0,69 | 8x5 | 3 |
| OPDa0713 | 7 | 10,50 | 0,97 | 3,5 | 12,30 | 1,14 | 8x5 | 2,5 |
| OPDa0420 | 4 | 15,60 | 1,44 | 2 | 17,40 | 1,61 | 12x9 | 2,5 |

INSTALLATION DIMENSIONS

Dimensions in mm

