

DOSING

PRODUCT PRICE LIST



DOSING

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Regardless of your dosing process requirement, Grundfos offer complete and effective, long-term, reliable dosing and disinfection equipment to suit your needs.

Grundfos' SMART Digital dosing solutions set new standards in liquid chemical handling and accuracy. SMART Digital dosing pumps can be programmed to deliver, measure and maintain exactly the dosing rate required, with exceptional accuracy.

The DMX mechanical range of dosing pumps offer medium capacity work rates in a strong and reliable package. The DMH range is a series of extremely strong and robust pumps for applications where a substantial dosing range and high-pressure capabilities are required.

Grundfos also offer Standard Dosing Station packages, where a majority of the set up and plumbing is already completed for added convenience.

This Dosing Product Price List covers part of the range of dosing pumps, accessories and measurement & control solutions by Grundfos. For the full range of Grundfos Dosing solutions, consult your Local Grundfos Sales Office.



OTHER GRUNDFOS PRODUCT PRICE LIST VOLUMES

HOME, GARDEN & FARM

(Including BasicLine by Grundfos)



GROUNDWATER

(Including BasicLine by Grundfos)



RENEWABLES



SINGLE STAGE - END SUCTION & INLINE



MULTI STAGE & INDUSTRIAL PUMPS



BOOSTING SYSTEMS



WASTEWATER



CONTROLS & MONITORING



SPARE PARTS



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Pictures within this book are for illustrative purposes only.



DISCOUNT CODE DD



SMART DIGITAL S, DDA - FCM

Smart Digital speed controlled diaphragm dosing pump.

- Auto flow adapt, fault diagnosis, auto degassing
- Degassing even in standby mode
- 1000:1 (3000:1 for 7.5 - 16) turndown ratio
- Stepper motor drive for smooth & continuous flow
- 2 x relay outputs + 4 - 20 mA output flow signal
- 100 - 240 V 50 / 60 Hz 1 phase 17 W motor IP65
- Easy output adjustment in L/h
- Icon menu guide with English language text
- Controls include: Manual, pulse, analogue, batch, timer, 7 day timer, GeniBus & remote on / off
- Dual chemical tank level inputs
- Click mounting plate for easy attachment
- Large illuminated coloured LCD with 270° rotation
- Click wheel menu select and adjustment
- Flow, total & pressure measurement display
- Chemical Connection thread, G5/8

Model	Tube Connection (mm)	Part No.	Price	PVDF / T / C		Max @ Max		Head Size
				L/h	Bar			
DDA 7.5-16 FCM-PV/T/C-F-31U2U2IG	4/6, 6/9, 6/12, 9/12	97722862	\$3,387	7.5	16			S
DDA 12-10 FCM-PV/T/C-F-31U2U2IG	4/6, 6/9, 6/12, 9/12	97722964	\$3,660	12	10			M
DDA 17-7 FCM-PV/T/C-F-31U2U2IG	4/6, 6/9, 6/12, 9/12	97723066	\$3,660	17	7			M
DDA 30-4 FCM-PV/T/C-F-31U2U2IG	4/6, 6/9, 6/12, 9/12	97723168	\$3,889	30	4			L

Notes: DDA-FCM version pumps monitor and control the dosing output, self diagnose and self correct (when possible) faults.

DDA-FCM can eliminate the need for a pressure gauge, flow meter and relief valve in a dosing system. Pumps are self calibrating and regulate flow according to pressure changes.

DDA-FCM pumps recognise gas bubbles in the chemical and changes its drive structure to eliminate them.

Adapts to Profibus DP or Modbus RTU by adding the optional E-box.



DISCOUNT CODE DD

**SMART DIGITAL S, DDA - AR****Smart Digital speed control dosing pump.**

- Digital control adjustment in L/h
- Degassing in standby mode
- 1000:1 (3000:1 for 7.5 - 16) turndown ratio
- Stepper motor drive for smooth & continuous flow
- 2 x relay outputs + 4 - 20 mA output
- 100 - 240 V 50 / 60 Hz 1 phase 17 W motor IP65
- Controls include: Manual, pulse, analogue, batch, timer, 7 day timer, GeniBus & remote on / off
- Dual chemical level inputs
- Click mounting plate for easy attachment
- Large illuminated coloured LCD with changeable mount
- Chemical Connection thread, G5/8

PVDF / T / C Max @ Max

Model	Tube Connection (mm)	Part No.	Price	L/h	Bar	Head Size
DDA 7.5-16 AR-PV/T/C-F-31U2U2IG	4/6, 6/9, 6/12, 9/12	97722794	\$2,409	7.5	16	S
DDA 12-10 AR-PV/T/C-F-31U2U2IG	4/6, 6/9, 6/12, 9/12	97722896	\$2,683	12	10	M
DDA 17-7 AR-PV/T/C-F-31U2U2IG	4/6, 6/9, 6/12, 9/12	97722998	\$2,683	17	7	M
DDA 30-4 AR-PV/T/C-F-31U2U2IG	4/6, 6/9, 6/12, 9/12	97723100	\$2,909	30	4	L

Notes: DDA-AR version pump controls the dosing output by normal modes, manual, pulse and analogue.
 Easy output adjustment in L/h.
 Icon menu guide and English language function text.
 Fault menu event log.
 Auto-degas in standby only.
 Not preferred for intermittent dosing of Sodium Hypochlorite and other gassing liquids. Use FCM version.
 Standard DDA pumps can be adapted to Profibus DP or Modbus RTU communications by adding an optional E-box.



DISCOUNT CODE DD

**SMART DIGITAL S, DDE - PR****Smart Digital speed control dosing pump.**

- 0.1 - 100% control adjustment scale knob
- 1000:1 turndown ration
- 100 - 240 V 50 / 60 Hz 1 phase 17 W motor IP65
- Controls include: Manual & pulse with remote on / off
- Click mounting plate for easy attachment
- Empty & pre-empty chemical level input
- Alarm output & low level warning output
- Chemical Connection thread, G5/8

PVC / T / C Max @ Max

Model	Tube Connection (mm)	Part No.	Price	L/h	Bar	Head Size
DDE 6-10 PR-PVC/T/C-X-31U2U2IG	4/6, 6/9, 6/12, 9/12	98147413	\$794	6	10	S
DDE 15-4 PR-PVC/T/ C-X-31U2U2IG	4/6, 6/9, 6/12, 9/12	98147447	\$978	15	4	M



SMART DIGITAL S, DDE - B

Smart Digital speed control dosing pump.

- 0.1 - 100% control adjustment scale knob
- 1000:1 turndown ration
- 100 - 240 V 50 / 60 Hz 1 phase 17 W motor IP65
- Controls: Manual only
- Click mounting plate for easy attachment
- Chemical Connection thread, G5/8

DISCOUNT CODE DD



PVC / T / C

Max @ Max

Model	Tube Connection (mm)	Part No.	Price	L/h	Bar	Head Size
DDE 6-10 B-PVC/T/C-X-31U2U2IG	4/6, 6/9, 6/12, 9/12	97721204	\$614	6	10	S
DDE 15-4 B-PVC/T/C-X-31U2U2IG	4/6, 6/9, 6/12, 9/12	97721272	\$797	15	4	M



SMART DIGITAL XL, DDA - FCM

Smart Digital speed control dosing pump.

- Auto flow adapt, fault diagnosis, auto degassing
- Degassing even in standby mode
- 800:1 turndown ratio
- Stepper motor drive for smooth & continuous flow
- Controls include; Manual, pulse, analogue, batch, timer, 7 day time, GeniBus & remote on / off
- Dual chemical tank levels
- Mounting plate for easy attachment
- Large illuminated coloured LCD with 270° rotation
- 2 x relay outputs + 4 - 20 mA output flow signal
- 100 - 240 V 50/60 Hz 1 phase 80 W motor IP65
- Easy output adjustment in L/h
- Icon menu guide with English language text
- Click wheel menu select and adjustment
- Flow, total & pressure measurement display
- Flow, fault menu event log
- Chemical Connection thread, G5/4

DISCOUNT CODE DD



PVDF / T / C

Max @ Max

Model	Tube Connection (mm)	Part No.	Price	L/h	Bar	Head Size
DDA 60-10 FCM-PV/T/C-F-31U3U3IG	19/27	99246435	\$7,348	60	10	XS
DDA 120-7 FCM-PV/T/C-F-31U3U3IG	19/27	99246438	\$7,998	120	7	XM
DDA 200-4 FCM-PV/T/C-F-31U3U3IG	19/27	99246442	\$8,340	200	4	XL

Notes: DDA-FCM version pumps monitor and control the dosing output, self diagnose and self correct some faults.

DDA-FCM can eliminate the need for a pressure gauge, flow meter and relief valve in a dosing system. Pumps are self calibrating and regulate flow according to pressure changes.

DDA-FCM pumps recognise gas bubbles in the chemical and changes its drive structure to eliminate them.

Adapts to most Fieldbus communications by connecting the required Grundfos CIU.

See Grundfos Controls & Monitoring Price List



DISCOUNT CODE DD

**SMART DIGITAL XL, DDA - AR****Smart Digital speed control dosing pump.**

- Digital control adjustment in L / h
- Degassing in standby mode
- 800:1 turndown ratio
- Stepper motor drive for smooth & continuous flow
- 2 x relay outputs + 4 - 20 mA output
- 100-240 V 50/60 Hz 1 phase 80 W motor IP65
- Controls include: Manual, pulse, analogue, batch, timer, 7 day timer, GeniBus & remote on/off
- Dual chemical level inputs
- Mounting plate for easy attachment
- Illuminated coloured LCD with changeable mount
- Click wheel menu select and adjustment
- Chemical Connection thread, G5/4

Model	Tube Connection (mm)	PVDF / T / C		Max @ Max		Head Size
		Part No.	Price	L/h	Bar	
DDA 60-10 AR-PV/T/C-F-31U3U3IG	19/27	99245401	\$5,809	60	10	XS
DDA 120-7 AR-PV/T/C-F-31U3U3IG	19/27	99246423	\$6,459	120	7	XM
DDA 200-4 AR-PV/T/C-F-31U3U3IG	19/27	99246431	\$6,801	200	4	XL

Notes: DDA-AR version pumps control the dosing output by normal modes, manual, pulse and analogue.

Easy output adjustment in L/h.

Icon menu guide and English language function text.

Fault menu event log.

Auto de-gas in standby only.

Not preferred for intermittent dosing of Sodium Hypochlorite and other gassing liquids. Use FCM version.

Adapts to most Fieldbus communications by connecting the required Grundfos CIU. See the Controls & Monitoring Price List module for further information.

Product image shows optional DLD. Diaphragm Leak Detector.



DISCOUNT CODE DD

**SMART DIGITAL XL, DDE - AR****Smart Digital speed control dosing pump.**

- 0.1 - 100% control adjustment scale knob
- 800:1 turndown ratio
- 100-240 V 50/60 Hz 1 phase 80 W motor IP65
- Controls include: Manual, pulse, analogue, with remote on/off
- Mounting plate for easy attachment
- Changeable control position
- Empty & pre-empty chemical level input
- Alarm output & low level warning output
- Chemical Connection thread, G5/4

Model	Tube Connection (mm)	PVC / T / C		Max @ Max		Head Size
		Part No.	Price	L/h	Bar	
DDE 60-10 AR-PVC/T/C-F-31U3U3IG	19/27	99246461	\$4,441	60	10	XS
DDE 120-7 AR-PVC/T/C-F-31U3U3IG	19/27	99246473	\$5,091	120	7	XM
DDE 200-4 AR-PVC/T/C-F-31U3U3IG	19/27	99246476	\$5,432	200	4	XL



SMART DIGITAL XL, DDE - B

Smart Digital speed control dosing pump.

- 0.1 - 100% control adjustment scale knob
- 800:1 turndown ratio
- 100-240 V 50/60 Hz 1 phase 80 W motor IP65
- Controls: Manual only
- Mounting plate for easy attachment
- Changeable control position
- Chemical Connection thread, G5/4

DISCOUNT CODE DD



PVC / T / C

Max @ Max

Model	Tube Connection (mm)	Part No.	Price	L/h	Bar	Head Size
DDE 60-10 B-PVC/T/C-F-31U3U3IG	19/27	99246457	\$3,585	60	10	XS
DDE 120-7 B-PVC/T/C-F-31U3U3IG	19/27	99246459	\$4,235	120	7	XM
DDE 200-4 B-PVC/T/C-F-31U3U3IG	19/27	99246460	\$4,576	200	4	XL



DIGITAL DME - AR

Digital diaphragm dosing pump with 1 phase motor.

- Digital speed control dosing pump
- 800:1 turndown ratio
- 100 - 240 V 50 / 60 Hz, 1 phase motor IP65
- Controls include: Manual, pulse, analogue, batch, cycle timer & remote on / off
- Dual level inputs
- Alarm relay output (AR)
- Chemical Connection thread, G2

DISCOUNT CODE DD



PVDF / V / G

Max @ Max

Model	Tube Connection	Part No.	Price	L/h	Bar
DME 375-10 AR PV/V/G-F-31A2A2I	1½" BSP F	96528889	\$9,861	375	10
DME 940-4 AR PV/V/G-F-31A2A2I	1½" BSP F	96528905	\$11,756	940	4



DIGITAL DME - B

Digital speed control dosing pump.

- 800:1 turndown ratio
- Controls include: Manual & timer
- 100 - 240 V 50/60 Hz, 1 phase motor IP65
- Chemical Connection thread, G2

DISCOUNT CODE DD



PVDF / V / G

Max @ Max

Model	Tube Connection	Part No.	Price	L/h	Bar
DME 375-10 B PV/V/G-F-31A2A2I	1½" BSP F	96528897	\$8,434	375	10
DME 940-4 B PV/V/G-F-31A2A2I	1½" BSP F	96528914	\$10,336	940	4



DISCOUNT CODE DD

**DMX - B (221)****Mechanical diaphragm dosing pump with 3 phase motor.**

- 10:1 turndown ratio
- Control by manual stroke length adjustment
- 200 - 240 / 380 - 420 V 50 / 60 Hz, 3 phase 90 W motor IP65
- Chemical Connection thread, heads 1-4 G5/8, heads 5-6 G5/4

DMX - B (221) - THREE PHASE

Model	Tube Connection (mm)	Part No.	Price	PVC / T / T		Head Size
				L/h	Bar	
DMX 8-10 B-PVC/T/T-X-E1B1B1	6/12	96692492	\$2,118	8	10	1
DMX 14-10 B-PVC/T/T-X-E1B1B1	6/12	96692469	\$2,129	14	10	2
DMX 26-10 B-PVC/T/T-X-E1B1B1	6/12	96715660	\$2,312	26	10	4
DMX 35-10 B-PVC/T/T-X-E1B1B1	6/12	96692485	\$2,199	35	10	3
DMX 50-10 B-PVC/T/T-X-E1B1B1	6/12	96692489	\$2,299	50	10	4
DMX 75-4 B-PVC/V/G-X-E1B2B2 *	12/20	96652050	\$2,708	75	4	5
DMX 115-3 B-PVC/V/G-X-E1B2B2 *	12/20	99206002	\$3,014	115	3	6



DISCOUNT CODE DD

**DMX - B (221) - SINGLE PHASE**

Model	Tube Connection (mm)	Part No.	Price	PVC / T / T		Head Size
				L/h	Bar	
DMX 8-10 B-PVC/T/T-X-G1B1B1I	6/12	96717020	\$2,379	8	10	1
DMX 14-10 B-PVC/T/T-X-G1B1B1I	6/12	96683645	\$2,388	14	10	2
DMX 26-10 B-PVC/T/T-X-G1B1B1I	6/12	96715759	\$2,571	26	10	4
DMX 35-10 B-PVC/T/T-X-G1B1B1I	6/12	96684056	\$2,459	35	10	3
DMX 50-10 B-PVC/T/T-X-G1B1B1I	6/12	96684244	\$2,559	50	10	4
DMX 75-4 B-PVC/V/G-X-G1B2B2I*	12/20	96684474	\$2,970	75	4	5
DMX 115-3 B-PVC/V/G-X-G1B2B2I*	12/20	96683504	\$3,274	115	3	6

Notes: *Viton seals & glass balls in valves.



DISCOUNT CODE DD



DMX - B (226)

Mechanical diaphragm dosing pump with 3 phase motor.

- 10:1 turndown ratio
- Control by manual stroke length adjustment (& VFD)
- 200 - 240 / 380 - 420 V 50 / 60 Hz, 3 phase 370 W motor IP65 (Other sizes, 240 V 1 phase & AR version on request)
- Chemical Connection thread, heads 1-3 G5/4, heads 4 G2

PVC / V / G Max @ Max

Model	Tube Connection (mm)	Part No.	Price	L/h	Bar	Head Size
DMX 67-10 B-PVC/V/G-X-E1B2B2	12/20	96686029	\$4,287	67	10	1
DMX 132-10 B-PVC/V/G-X-E1B2B2	12/20	96653457	\$4,251	132	10	1
DMX 199-8 B-PVC/V/G-X-E1B2B2	12/20	96690322	\$4,332	199	8	2
DMX 280-8 B-PVC/V/G-X-E1B2B2	12/20	96653084	\$4,332	280	8	2
DMX 321-6 B-PVC/V/G-X-E1B9B9	19/27	96607455	\$4,385	321	6	3
DMX 460-6 B-PVC/V/G-X-E1B9B9	19/27	96656708	\$4,385	460	6	3
DMX 525-3 B-PVC/V/G-X-E1KK	DN32 *	96699830	\$5,003	525	3	4
DMX 765-3 B-PVC/V/G-X-E1KK	DN32 *	96720540	\$5,003	765	3	4

Notes: *Metric PVC union pipe socket. See PVC Pipe Connections (7) for DN32 inch union socket.



DISCOUNT CODE DD



DMH - B (251)

Hydraulic piston diaphragm dosing pump.

- Control by manual stroke length adjustment
- 20:1 turndown ratio
- Built in pressure relief valve
- Automate by optional stroke servo or VFD
- 200 - 240 / 380 - 420 V 50 / 60 Hz, 3 phase 90 W motor IP65
- Other sizes, 240 V 1 phase & AR version on request
- PP, PVDF, SS heads available on request
- 25 Bar version in SS/V/SS also available
- Chemical Connection thread, G5/8

PVC / T / T Max @ Max

Model	Tube Connection (mm)	Part No.	Price	L/h	Bar	Stroke RPM
DMH 5,0-10 B-PVC/T/T-X-E1B1B1	6/12	96686568	\$3,962	5	10	29
DMH 13-10 B-PVC/T/T-X-E1B1B1	6/12	96686312	\$3,958	13	10	63
DMH 19-10 B-PVC/T/T-X-E1B1B1	6/12	96686375	\$4,029	19	10	96
DMH 24-10 B-PVC/T/T-X-E1B1B1	6/12	96686487	\$3,958	24	10	120
DMH 4,9-16 B-PVC/T/T-X-E1B1B1	6/12	96694065	\$3,983	4.9	16	29
DMH 12-16 B-PVC/T/T-X-E1B1B1	6/12	96694066	\$3,977	12	16	63
DMH 18-16 B-PVC/T/T-X-E1B1B1	6/12	96694067	\$4,047	18	16	96
DMH 23-16 B-PVC/T/T-X-E1B1B1	6/12	96694068	\$3,977	23	16	120

Notes: All DMH 251 and 252 pumps use the same size head.



DISCOUNT CODE DD

**DMH - B (252)****Hydraulic piston diaphragm dosing pump.**

- Control by manual stroke length adjustment
- 20:1 turndown ratio
- Built in pressure relief valve
- Automate by optional stroke servo or VFD
- 200 - 240 / 380 - 420 V 50 / 60 Hz, 3 phase 90 W motor IP65 (Other sizes, 240 V 1 phase & AR version on request)
- Chemical Connection thread, G5/8

Model	Tube Connection (mm)	Part No.	Price	PVC / T / T		Stroke RPM
				L/h	Bar	
DMH 24-10 B-PVC/T/T-X-E1B1B1	6/12	96694070	\$4,032	24	10	63
DMH 37-10 B-PVC/T/T-X-E1B1B1	6/12	96694071	\$4,102	37	10	96
DMH 46-10 B-PVC/T/T-X-E1B1B1	6/12	96686739	\$4,032	46	10	120
DMH 23-16 B-PVC/T/T-X-E1B1B1	6/12	96694073	\$4,751	23	16	63
DMH 36-16 B-PVC/T/T-X-E1B1B1	6/12	96686671	\$4,720	36	16	96
DMH 45-16 B-PVC/T/T-X-E1B1B1	6/12	96694074	\$4,734	45	16	120
DMH 54-16 B-PVC/T/T-X-E1B1B1	6/12	96694075	\$4,769	54	16	144

Notes: All DMH 251 and 252 pumps use the same size head.



DISCOUNT CODE DD

**DMH - B (253)****Hydraulic piston diaphragm dosing pump.**

- Control by manual stroke length adjustment
- 20:1 turndown ratio
- Built in pressure relief valve
- Automate by optional stroke servo or VFD
- 200 - 240 / 380 - 420 V 50 / 60 Hz, 3 phase 180 W motor IP65 (Other sizes, 240 V 1 phase & AR version on request)
- Chemical Connection thread, G5/4

Model	Tube Connection (mm)	Part No.	Price	PVC / V / G		Stroke RPM
				L/h	Bar	
DMH 43-10 B-PVC/V/G-X-E1B2B2	12/20	96686821	\$4,738	43	10	63
DMH 67-10 B-PVC/V/G-X-E1B2B2	12/20	96686861	\$4,709	67	10	96
DMH 83-10 B-PVC/V/G-X-E1B2B2	12/20	96686896	\$4,722	83	10	120
DMH 100-10 B-PVC/V/G-X-E1B2B2	12/20	96723492	\$4,757	100	10	144

Notes: All DMH 253 pumps use the same size head.



DISCOUNT CODE DD



DMH - B (254)

Hydraulic piston diaphragm dosing pump.

- Control by manual stroke length adjustment
- 20:1 turndown ratio
- Built in pressure relief valve
- Automate by optional stroke servo or VFD
- 200 - 240 / 380 - 420 V 50 / 60 Hz, 3 phase 550 W motor IP55
- 16 Bar SS/V/SS version available on request
- Chemical Connection thread, G5/4

Model	Tube Connection (mm)	Part No.	Price	PVC / V / G		Stroke RPM
				L/h	Bar	
DMH 102-10 B-PVC/V/G-X-E1B2B2	12/20	96686924	\$11,169	102	10	54
DMH 143-10 B-PVC/V/G-X-E1B2B2	12/20	96686958	\$11,339	143	10	75
DMH 175-10 B-PVC/V/G-X-E1B2B2	12/20	96686991	\$11,256	175	10	92
DMH 213-10 B-PVC/V/G-X-E1B2B2	12/20	96687022	\$11,198	213	10	112
DMH 291-10 B-PVC/V/G-X-E1B2B2	12/20	96693506	\$11,239	291	10	153

Notes: All DMH 254 pumps use the same size head.



DISCOUNT CODE DD



DMH - B (255)

Hydraulic piston diaphragm dosing pump.

- Control by manual stroke length adjustment
- 20:1 turndown ratio
- Built in pressure relief valve
- Automate by optional stroke servo or VFD
- 200 - 240 / 380 - 420 V 50 / 60 Hz, 3 phase 550 W motor IP55
- Chemical Connection thread, G5/4

Model	Tube Connection (mm)	Part No.	Price	PVC / V / G		Stroke RPM
				L/h	Bar	
DMH 194-10 B-PVC/V/G-X-E1B2B2	12/20	96687102	\$11,953	194	10	54
DMH 270-10 B-PVC/V/G-X-E1B2B2	12/20	96687118	\$12,125	270	10	75
DMH 332-10 B-PVC/V/G-X-E1B2B2	12/20	96687150	\$12,043	332	10	92
DMH 403-10 B-PVC/V/G-X-E1B2B2	12/20	96687172	\$11,983	403	10	112
DMH 550-10 B-PVC/V/G-X-E7B2B8	DIN 32 (In) 12/20 (Out)	96638698	\$12,727	550	10	153

Notes: All DMH 255 pumps use the same size head.



DISCOUNT CODE DD

**DMH - B (257)****Hydraulic piston diaphragm dosing pump.**

- Control by manual stroke length adjustment
- 20:1 turndown ratio
- Built in pressure relief valve
- Automate by optional stroke servo or VFD
- Energy efficient IE2 415 V 50 Hz, 1.1 kW, 3 phase, motor IP65
- Pump includes mating flanges & PVC pipe sockets
- Chemical Connection DIN 32 Flange, use G2 accessories

PVC / V / G Max @ Max

Model	Tube Connection	Part No.	Price	L/h	Bar	Stroke RPM
DMH 440-10 B-PVC/V/G-X-X1B8B8	DIN 32 Flange	95738183	\$17,177	440	10	56
DMH 575-10 B-PVC/V/G-X-X1B8B8	DIN 32 Flange	95738184	\$16,929	575	10	73
DMH 770-10 B-PVC/V/G-X-X1B8B8	DIN 32 Flange	95738185	\$17,000	770	10	98
DMH 880-10 B-PVC/V/G-X-X1B8B8	DIN 32 Flange	95738186	\$16,983	880	10	112
DMH 1150-10 B-PVC/V/G-X-X1B8B8	DIN 32 Flange	95738187	\$17,011	1150	10	146
DMH 1500-4 B-PVC/V/G-X-X1B8B8	DIN 32 Flange	95738188	\$18,377	1500	4	146

Notes: All DMH 257 pumps use the same size head.



DISCOUNT CODE DD

INSTALLATION KIT (SUIT DDE / DDA S)**Suits DDE/DDA-S pumps, operating between 2 and 10 Bar.**

- Includes: Foot valve/strainer
- Injection valve ½" BSP M thread
- Tubing 6 m PE pressure, 2 x 2 m PVC suction / bleed
- NL= No Level
- 2L = Empty & pre empty level switches with M12 plug & 5 m cable

Model	Tube Connection (mm)	Part No.	Price	Inj. Body	Materials O-Ring	Ball
Install. Kit I005 PVC / T / C-6/9 mm-NL	6/9	95730452	\$200	PVC	Teflon	Ceramic
Install. Kit I005 PV/T/C-6/9 mm-NL	6/9	95730455	\$247	PVDF	Teflon	Ceramic
Install. Kit I002 PVC / T / C-9/12 mm-NL	9/12	95730460	\$204	PVC	Teflon	Ceramic
Install. Kit I002 PV/T/C-9/12 mm-NL	9/12	95730463	\$251	PVDF	Teflon	Ceramic
Install. Kit I015 PVC / T / C-6/9 mm-2L	6/9	95730476	\$337	PVC	Teflon	Ceramic
Install. Kit I015 PV/T/C-6/9 mm-2L	6/9	95730479	\$410	PVDF	Teflon	Ceramic
Install. Kit I012 PVC / T / C-9/12 mm-2L	9/12	95730484	\$344	PVC	Teflon	Ceramic
Install. Kit I012 PV/T/C-9/12 mm-2L	9/12	95730487	\$414	PVDF	Teflon	Ceramic



DISCOUNT CODE DD

INSTALLATION KIT (SUIT DDE / DDA-XL, DME 375)

Suits DDE/DDA XL pumps, operating between 2 and 10 bar.

- Includes Foot valve/strainer PE material
- Injection valve 1" BSP thread. (DD_60 kits ½" BSP)
- Tubing according to tube connection size
- NL = No Level flexible FV
- 2L = Empty and pre-empty level switches with M12 plug & 5m cable

Model	Tube Connection (mm)	Part No.	Price	Inj. Body	Materials O-Ring	Ball
INSTALL KIT DD_ 60-10 PVC/T/C-9/12MM-NL	9/12	99318752	\$421	PVC	Teflon	Ceramic
INSTALL KIT DD_ 60-10 PVC/T/C-9/12MM-2L	9/12	99318773	\$508	PVC	Teflon	Ceramic
INSTALL KIT DD_ 200 PVC/T/C-19/27MM-NL	19/27	99318774	\$721	PVC	Teflon	Ceramic
INSTALL KIT DD_ 200 PVC/T/C-19/27MM-2L	19/27	99318775	\$793	PVC	Teflon	Ceramic
INSTALL KIT DME 375 PVC/T/C-19/27MM-NL	19/27	99318776	\$995	PVC	Teflon	Ceramic
INSTALL KIT DME 375 PVC/T/C-19/27MM-2L	19/27	99318777	\$1,066	PVC	Teflon	Ceramic

Notes: DD_60-10 kits can use G5/8 PRV/PLV's. DME375 kits can use G5/4 PRV/PLV's.

DD_200 and DME 375 2L kits contain RSL: 690 mm. All other kits contain flexible foot valves.



DISCOUNT CODE DD

CABLE & PLUG - DDA/DDE/DDI/DMX/DMH

Signal cables connect to communication systems for remote or automated control.

- Input & output signal cables
- Length 5 m with moulded M12 plug to match pump sockets
- Or plug only

Description	Signal	Part No.	Price	Pulse 4 - 20 mA & On/Off	Alarm Relay	4 - 20 mA or GeniBus
Acc. cable 5 m, control input, straight	Input	96609016	\$82	✓		
Acc. cable 5 m, relay output, straight	Output	96609019	\$82		✓	
Acc. cable 5 m, analog output, straight	Output	96632922	\$82			4-20 mA
Acc. plug, level input, straight	Input	96698715	\$59			
Acc. plug, relay output, straight	Output	96696198	\$59		✓	
Acc. cable 3 m, GENibus, straight	In/Out	98589048	\$132			GeniBus
M12 socket to Flat plug adaptor	Level	96635010	\$137	Suit DMI DDI-S DMX-AR DMH-AR		



DISCOUNT CODE DD

CABLE & PLUG - DME 60 TO 940

Input & output signal cables.

- Length 5 m with moulded M12 plug to match pump sockets

Description	Signal	Part No.	Price	Pulse or 4 - 20 mA	Alarm Relay	Remote On/Off
Acc. cable 5 m, pulse, 0/4-20 mA in	Input	96440448	\$80	✓		
Acc. cable 5 m, relay output	Output	96534215	\$132		✓	
Acc. cable 5 m, ext.Stop in, dosing out	Input	96527111	\$81			✓
Acc. cable 5 m, level input, DME	Dual Tank Level	96440451	\$77			



DISCOUNT CODE DD

E-BOX ADAPTORS – DDA-S

Extension box to connect DDA small pumps to Bus communication.

- Bus communication adaption device
- Cable connection direct to DDA pumps
- Clips onto base of pump
- Internal connection and terminating resistor

Model	Part No.	Price
E-box 150 Profibus DP	97513994	\$871
E-box 200 Modbus-RTU	98563350	\$871
E-box 500 Ethernet, Profinet, Modbus TCP	99171932	\$871

Notes: For Bus communication to DDA XL pumps select appropriate CIU module in the Controls & Monitoring Price List module and connect using the DDA pump Genibus cable.



DISCOUNT CODE DD

FLEXIBLE FOOT VALVE FLEXIBLE - FV

Check valve with weight used to extract chemicals through the top of a drum or tank. Hangs in drum on suction hose.

- Non return foot valve with 0.8 mm strainer
- U2 hose connector set to suit Grundfos hose
- NL = No level switch
- 2 L = Empty & pre-empty level switches with M12 plug & 5 m cable

Model	Tube Connection (mm)	Part No.	Price	Body	Materials O-Ring	Ball
FV-NL-G5/8 PE/T/C U2	4/6, 6/9, 6/12, 9/12	98070952	\$116	PE	T	Ceramic
FV-NL-G5/8 PV/T/C U2	4/6, 6/9, 6/12, 9/12	98070954	\$164	PVDF	T	Ceramic
FV-2L-G5/8 PE/T/C U2	4/6, 6/9, 6/12, 9/12	98070967	\$274	PE	T	Ceramic
FV-2L-G5/8 PV/T/C U2	4/6, 6/9, 6/12, 9/12	98070969	\$379	PVDF	T	Ceramic
FV-NL-G5/4 PE/T/C U3	19/27	99168635	\$300	PE	T	Ceramic
FV-NL-G5/4 PV/T/C U3	19/27	99168649	\$416	PVDF	T	Ceramic
FV-NL-G5/4 SS/T/SS A1	¾" BSP	99170593	\$783	SS	T	SS
FV-NL-G2 PV/T/C B5	DN40	99352903	\$1,197	PVDF	T	Ceramic
FV-NL-G2 SS/T/SS A2	1¼" BSP	99352904	\$1,140	SS	T	SS

Notes: Foot valve does not include suction tubing.

G5/4 & G2 FV's do not include weight. DN40 tube connect is metric. Select alternate connections from Hose Connection set list or Pipe Connections and Adapters.

Support hose by running through a piece of rigid pipe.



DISCOUNT CODE DD

RIGID SUCTION LANCES - RSL

Check valve used to extract chemicals through the top of a drum or tank. Rigid Suction Lance, fixes to top of tank with agitator or can be adapted to different drum bungs.

- Length 690 mm suits Grundfos tanks up to 200 L
- Length 1100 mm suits Grundfos tanks up to 500 L
- Non return foot valve with 0.8 mm strainer
- 2" BSP bung holder suits Grundfos tanks
- U2 or U3 hose connector set to suit Grundfos hose
- NL = No level switch
- 2 L = Empty & pre-empty level switches with M12 plug & 5 m cable

Model	Tube Connection (mm)	Part No.	Price	Body	Materials O-Ring	Ball
RSL-0690-NL-G5/8 PE/T/C U2	4/6, 6/9, 6/12, 9/12	98071015	\$234	PE	T	Ceramic
RSL-0690-NL-G5/8 PV/T/C U2	4/6, 6/9, 6/12, 9/12	98071017	\$536	PVDF	T	Ceramic
RSL-0690-2L-G5/8 PE/T/C U2	4/6, 6/9, 6/12, 9/12	98071111	\$366	PE	T	Ceramic
RSL-0690-2L-G5/8 PV/T/C U2	4/6, 6/9, 6/12, 9/12	98071113	\$695	PVDF	T	Ceramic
RSL-1100-NL-G5/8 PE/T/C U2	4/6, 6/9, 6/12, 9/12	98071051	\$234	PE	T	Ceramic
RSL-1100-NL-G5/8 PV/T/C U2	4/6, 6/9, 6/12, 9/12	98071053	\$610	PVDF	T	Ceramic
RSL-1100-2L-G5/8 PE/T/C U2	4/6, 6/9, 6/12, 9/12	98071147	\$366	PE	T	Ceramic
RSL-1100-2L-G5/8 PV/T/C U2	4/6, 6/9, 6/12, 9/12	98071149	\$770	PVDF	T	Ceramic
RSL-0690-NL-G5/4 PE/T/C U3	19/27	99199366	\$388	PE	T	Ceramic
RSL-0690-2L-G5/4 PE/T/C U3	19/27	99161943	\$640	PE	T	Ceramic
RSL-1200-NL-G5/4 PE/T/C U3	19/27	99199370	\$430	PE	T	Ceramic
RSL-1200-2L-G5/4 PE/T/C U3	19/27	99161947	\$682	PE	T	Ceramic
RSL-1200-NL-G2 PVC/V/G A8	DN40	99328221	\$775	PVC	V	Glass
Emission protect snifting valve		98071178	\$218	PE		
Emission protect for filter tank		98071179	\$151	PE		
Level switch-2L-PE with clip D40		99339691	\$382	PE		

Notes: RSL's will fit through most chemical drum bungs. G5/8 = 32mm, G5/4 = 40mm, G2 = 66mm.
Emission kit for filter requires 4/6 tubing and filter. Filter not included.



DISCOUNT CODE DD

ADAPTORS FOR CONTAINER CONNECTION

These adaptors allow the suction lance to be installed onto chemical drum bungs.

- Colour coded for identification

Model	Hole or Thread	Part No.	Price	Body	Colour
Acc. backing nut G2"	2" BSP F	98071170	\$30	PVC	Grey
Acc. adapter RSL, G2" in, S56x4 out	Trisure	98071172	\$61	PE	Orange
Acc. adapter RSL, G2" in, cap DIN51	Ø 36 mm	98071173	\$61	PE	Green
Acc. adapter RSL, G2" in, cap DIN61	Ø 45 mm	98071174	\$41	PE	Yellow
Acc. adapter RSL, G2" in, cap DIN71	Ø 57 mm	98071175	\$61	PE	Brown
Acc. adapter RSL, G2" in, cap ASTM 63	Ø 63 mm ASTM	98071176	\$61	PE	White
Acc. adaptor RSL, G2" in, IBC150 mm	IBC Lid	98071177	\$84	PE	Black



DISCOUNT CODE DD

PRESSURE RELIEF VALVE - PRV

Safety device for pump and chemical system. Releases over pressure.

- Adjustable pressure relief valve
- Max pressure 10 or 16 Bar as in description

Model	Tube Connection (mm)	Part No.	Price	Body	Materials O-Ring	Max L/h
PRV-G5/8-10 PVC/T U2	4/6, 6/9, 6/12, 9/12	95730759	\$322	PVC	T	60 *
PRV-G5/8-10 PV/T U2	4/6, 6/9, 6/12, 9/12	95730761	\$424	PVDF	T	60 *
PRV-G5/8-16 PV/T U2	4/6, 6/9, 6/12, 9/12	95730777	\$424	PVDF	T	60 *
PRV-G1/4-10 SS/-A	¼" BSP	95730771	\$551	SS	-	60 *
PRV-G1/4-16 SS/-A	¼" BSP	95730783	\$551	SS	-	60 *
PRV-G5/4-10 PVC/T U3	19/27	99141139	\$446	PVC	T	550**
PRV-G5/4-10 PV/T U3	19/27	99141224	\$909	PVDF	T	550**
PRV-G5/4-10 SS/ A1	¾" BSP	99141228	\$772	SS	-	550**
For G2 sized PRV's select a G2 PLV and install on a Tee in the dosing line						

Notes: * Too small for DME 60 or DMH 253. Note U2 connection when selecting for DDA/DDE 60. DN20 to DN8 adapters required for pump.

** Too small for DMH 257.

Select according to tube size.



DISCOUNT CODE DD

PRESSURE VALVE - PV

Applies minimum back pressure on dosing pump to ensure accurate dose. Anti-siphon valve.

- Fixed pressure (non return) loading valve
- 3 Bar spring pressure (Tantal)
- Includes double cap to mount onto injection valve
- Should be used with low dose rates in DDA - FCM pumps
- Can be used with all Smart Digital pumps

Description	Suit Tube Size	Part No.	Price	Body	Materials O-Ring	Max L/h
PV-G5/8-3PVC/V/C	DN8 Cap M to F	95730327	\$152	PVC	V	60 *
PV-G5/8-3PVC/E/C	DN8 Cap M to F	95730328	\$152	PVC	E	60 *
PV-G5/8-3PV/T/C	DN8 Cap M to F	95730332	\$297	PVDF	T	60 *
Acc.valve-PV-G5/4-3 PV/E/C X nutG5/4	DN20 Cap M to F	99229018	\$600	PVDF	E	200
Acc.valve-PV-G5/4-3 PV/V/C X nutG5/4	DN20 Cap M to F	99229020	\$600	PVDF	V	200

Notes: * Not for DME 60 or DMH 253. Note connection size against DDE/DDA 60.



DISCOUNT CODE DD

PRESSURE LOADING VALVE - PLV

Applies minimum back pressure on dosing pump to ensure accurate dose. Anti-siphon valve.

- Adjustable pressure loading valve
- Adjustment range 2 - 4 Bar
- G5/4 PLV's adjust 3-10 Bar

Model	Tube Connection (mm)	Part No.	Price	Body	Materials O-Ring	Max L/h
PLV-G5/8-3 PVC/T	4/6, 6/9, 6/12, 9/12	95730743	\$263	PVC	T	60 *
PLV-G5/8-3 PV/T	4/6, 6/9, 6/12, 9/12	95730745	\$380	PVDF	T	60 *
PLV-G1/4-3 SS/-A	¼" BSP	95730751	\$522	SS	-	60 *
PLV-G5/4-3 PVC/T U3	19/27	99140593	\$371	PVC	T	550 **
PLV-G5/4-3 PV/T U3	19/27	99140651	\$768	PVDF	T	550 **
PLV-G5/4-3 SS/ A1	¾" BSP	99135772	\$692	SS	-	550 **
PLV-G2-10 PVC/V,E K	DN 40 metric	99367198	\$657	PVC	V,E	1500
PLV-G2-10 PV/T B5	DN 40 Metric	99367203	\$3,789	PVDF	T	1500
PLV-G2-10 SS/ A2	1½" BSP	99367204	\$1,475	SS	-	1500

Notes: * Too small for DMH 253. Note connection size for DDA/DDE 60. DN20 to DN8 adapters required for pump.

** Too small for DMH 257.

Select according to tube size.



DISCOUNT CODE DD

MULTI FUNCTION VALVE - MFV

Four function valve.

- Pressure loading
- Pressure relief
- Manual priming
- Manual pressure release
- Note minimum relief pressure 7 Bar

Description	Suit Tube Size	Part No.	Price	Body	Materials O-Ring	Max L/h
MFV-G5/8-10 PV/T	4/6, 6/9, 6/12, 9/12	95730812	\$464	PVDF	T	60 *
MFV-G5/8-16 PV/T	4/6, 6/9, 6/12, 9/12	95730828	\$464	PVDF	T	60 *

Notes: * Not for DDA/DDE/DME 60 or DMH 253 and above.

**FIXED INJECTION VALVE IV**

Feeds chemical into water flow and prevents back flow.

- Fixed type with 0.8 Bar spring loaded check valve
- Quill effective length indicated (eg., /100) mm

DISCOUNT CODE DD

Description	Tube Connection (mm)	Part No.	Price	Body	O-Ring/Ball	Mount Thread
Inject. unit 0200-16 PVC / T / C 4U2-20/100 (G5/8)	4/6, 6/9, 6/12, 9/12	95730920	\$153	PVC	T/C	½" BSP M
Inject. unit 0200-16 PVC/T/C 4U2-20/300 (G5/8)	4/6, 6/9, 6/12, 9/12	95730948	\$226	PVC	T/C	½" BSP M
Injection unit 0200-16 PV / T / C 4U2-20/100 (G5/8)	4/6, 6/9, 6/12, 9/12	95730932	\$215	PVDF	T/C	½" BSP M
Injection unit 0200-100 SS/T/SS 4A-20/27 (G5/8)	¾" BSP	95730936	\$528	SS	T/SS	½" BSP M
Inj.unit 0300-10 PVC/T/C 4U3-30/120 (G5/4)	19/27	99169217	\$268	PVC	T/C	1" BSP M
Inj.unit 0300-10 PV/T/C 4U3-30/120 (G5/4)	19/27	99169229	\$543	PVDF	T/C	1" BSP M
Inj.unit 0300-10 SS/T/SS 4A1-30/120 (G5/4)	¾" BSP	99169230	\$985	SS	T/SS	1" BSP M
Inj.unit 0400-10 PVC/T/T 4K-40/120 (G2)	DN 40 Metric	99333839	\$979	PVC	T/T	2" BSP M
Inj.unit 0400-10 PV/T/T 4B5-40/120 (G2)	DN 40 Metric	99333909	\$1,729	PVDF	T/T	2" BSP M
Inj.unit 0400-10 SS/T/SS 4A2-40/120 (G2)	1¼" BSP	99333910	\$1,498	SS	T/SS	2" BSP M

**WITHDRAWABLE INJECTION QUILL**

Allows removal for cleaning, without draining water process line.

- Withdrawable type with 0.8 Bar spring loaded check valve

DISCOUNT CODE DD

Description	Tube Connection (mm)	Part No.	Price	Body	O-Ring/Ball	Mount Thread
Quill DN8/4 INJECT W/D PVC 0200 (G5/8)	4/6, 6/9, 6/12, 9/12	95709571	\$397	PVC	T/C	½" BSP M
Quill DN20 INJECT W/D PVC 0300 (G5/4)	19/27	95711741	\$594	PVC	T/C	1" BSP M
Quill DN32 INJECT W/D PVC 0400 (G2)	1¼" BSP	95714452	\$1,365	PVC	V/G	2" BSP M



LIP VALVE INJECTION VALVE IV

DISCOUNT CODE DD

Injection tube with Viton lip reduces blocking when dosing Sodium Hypochlorite.

- Fixed type with 0.8 Bar spring loaded check valve

Description	Tube Connection (mm)	Part No.	Price	Body	O-Ring/Ball	Mount Thread
Injection unit 0203-16 PVC/V/C 4U2-20/55 (G5/8)	4/6, 6/9, 6/12, 9/12	95730964	\$164	PVC	V/C	½" BSP M



TUBING

Chemical delivery tubing for suction and pressure side of pump.

Description	Tube Size (mm) Max Bar	Part No.	Price	Colour	Coil Length (m)
Hose PE-4/6-10 m 3/U2 (to 6 L/h)	4/6 - 13	91836504	\$34	Opaque	10
Hose PE-4/6-50 m 3/U2 (to 6 L/h)	4/6 - 13	91835680	\$136	Opaque	50
Hose 4/6 10m PE Black	4/6 - 13	91338908	\$90	Black	10
Hose 4/6 50m PE Black	4/6 - 13	91338909	\$164	Black	50
Hose PVC-4/6-3m 3/U2	4/6 - 0.5	96701733	\$15	Clear	3
Hose ETFE-4/6-10 m 3/U2	4/6 - 20	95730338	\$221	Opaque	10
Hose ETFE-4/6-50 m 3/U2	4/6 - 20	95730339	\$1,087	Opaque	50
Hose PE-6/9-10 m 4/U2 (to 50 L/h)	6/9 - 10	96727412	\$51	Opaque	10
Hose PE-6/9-50 m 4/U2 (to 50 L/h)	6/9 - 10	96727415	\$238	Opaque	50
Hose 1/4"-3/8" 10 m PE Black	¼x3/8 (6/9) - 10	91338910	\$124	Black	10
Hose 1/4"-3/8" 50 m PE Black	¼x3/8 (6/9) - 10	91338911	\$297	Black	50
Hose 6/9 10 m ETFE	6/9 - 20	95730341	\$416	Opaque	10
Hose 6/9 50 m ETFE	6/9 - 20	95730342	\$2,064	Opaque	50
Hose br.PVC-6/12-10 m 5/U2 (to 60 L/h)	6/12 - 16	96653571	\$91	Clear	10
Hose br.PVC-6/12-50 m 5/U2 (to 60 L/h)	6/12 - 16	91835686	\$451	Clear	50
Hose 9/12 10 m PE Black	9/12 - 10	91338914	\$138	Black	10
Hose 9/12 50 m PE Black	9/12 - 10	91338915	\$379	Black	50
Hose 9/12 10 m ETFE	9/12 - 20	95730344	\$623	Opaque	10
Hose 9/12 50 m ETFE	9/12 - 20	95730345	\$3,096	Opaque	50
Hose PVC 13/20 10 m	12/20 - 16	96727420	\$140	Clear	10
Hose PVC 13/20 50 m	12/20 - 16	96692592	\$615	Clear	50
Hose 19/27 10 m PVC Clear	19/27 - 16	91338917	\$168	Clear	10
Hose 19/27 50 m PVC Clear	19/27 - 16	91333283	\$632	Clear	50
Hose spiral PVC 19/24,6 3m Q/U3	19/24.6 - 7	99168771	\$121	Clear	3
Hose 25/34 10 m PVC/textile	25/34 - 10	96441201	\$192	Clear	10
Hose 32/41 10m PVC/Polyester	32/41 - 9	96535079	\$318	Clear	10

Notes: 6 / 12 preferred tubing size for all DDA/DDE small pumps.
DMX 221 to head 4.



DISCOUNT CODE DD

HOSE CONNECTION SETS

Connection cap assembly for pumps and accessories.

- Part number comprises of one connection
- Includes cap and inserts

Description	Tube Connection (mm)	Part No.	Price	Body	Type
Acc.connector PVC-U2,metric tubing comb. (G5/8)	4/6, 6/9, 6/12, 9/12	97691903	\$29	PVC	Tube
Acc.connector PV-U2,metric tubing comb. (G5/8)	4/6, 6/9, 6/12, 9/12	97691904	\$48	PVDF	Tube
Acc.connector SS-A,pipe thread.Rp1/4". (G5/8)	¼" BSP F	97702472	\$76	SS	Thread
Acc.connector PVC-A6,tubing13/20mm (G5/4) to 10 bar	12/20	91835696	\$46	PVC	Tube
Acc.connector PVC-A6,tubing13/20mm (G5/4) to 3 bar	12/20	96727606	\$26	PVC	Tube
Acc.connector PVC-U3,metric comb. G5/4	19/27	99082038	\$32	PVC	Barb
Acc.connector PVDF-U3,metric comb. G5/4	19/27	99082039	\$123	PVDF	Barb
Acc.connector SS-A1,pipe thread.Rp3/4" (G5/4)	¾" BSP F	99082045	\$159	SS	Thread
Suit DME 375-940 (G2)	32/41, 38/48	96535104	\$263	PVDF	Barb



DISCOUNT CODE DD

CONNECTION INSERT KIT

Inserts fit into connection cap on pumps and accessories.

- Part number comprises of two insert sets

Suit Pump Head	Tube Connection (mm)	Part No.	Price	Body	Type
DDA/DDE -S (G5/8)	4/6	95730720	\$25	PVC	Tube
DDA/DDE -S (G5/8)	5/8	95730721	\$25	PVC	Tube
DDA/DDE -S (G5/8)	6/8	95730722	\$25	PVC	Tube
DDE-S (G5/8)	6/9	95730723	\$25	PVC	Tube
DDE-S (G5/8)	6/12	95730724	\$25	PVC	Tube
DDE-S (G5/8)	9/12	95730725	\$25	PVC	Tube
DDE-S (G5/8)	¼ x 3/8	95730727	\$25	PVC	Tube
DDE-S (G5/8)	3/8, x ½	95730728	\$25	PVC	Tube
DDE-S (G5/8)	¼" BSP F	95730739	\$91	SS	Thread
DDA/DDE-XL (G5/4)	19/27	99169740	\$34	PVC	Barb
DDA/DDE-XL (G5/4)	19/27	99169738	\$46	PVDF	Barb
DDA/DDE-XL (G5/4)	¾" BSP F	99082044	\$149	PVDF	Thread
DDA/DDE XL (G5/4)	¾" BSP F	99182114	\$182	SS	Thread
DME 375-940 (G2)	1¼" BSP F	96534799	\$113	PVC	Thread
DME 375-940 (G2)	32/41	96535112	\$537	PVDF	Tube
DME 375-940 (G2)	1¼" BSP F	96608419	\$158	PVDF	Thread
DME 375-940 (G2)	1¼" BSP F	96575258	\$142	SS	Thread



DISCOUNT CODE DD

PVC PIPE CONNECTION & ADAPTORS

Connects rigid PVC pipe to pumps and accessories or flexible tubing.

- For connection by BSP thread or SWJ gluing
- Part number comprises of one connection

Description	Pump	Part No.	Price	Plastic	Type
DN8 Cap to ½" SWJ Socket (1) (G5/8)	Small pumps up to 50 L/h	95710924	\$31	PVC	Glued
DN8 Cap to ½" BSP F (2) (G5/8)	Small pumps up to 50 L/h	95712035	\$34	PVC	Thread
DN8 BSP M to ½" SWJ Spigot (3) (G5/8)	Small pump system	95710053	\$25	PVC	Glued
DN8 BSP M to ½" BSP M (4) (G5/8)	Small pump system	95709620	\$31	PVC	Thread
DN8 Cap to ½" SWJ Spigot (5) (G5/8)	Small pumps up to 50 L/h	95714411	\$30	PVC	Glued
DN8 Tee M/M/M U2 (G5/8)	Small pumps up to 50 L/h	95730389	\$194	PVC/T	Thread
DN8 Tee F/M/M U2 (G5/8)	Small pumps up to 50 L/h	95730399	\$147	PVC/T	Thread
DN8 M/M joiner U2 (G5/8)	Small pumps up to 50 L/h	95730369	\$123	PVC/T	Thread
DN20 F to DN8 M Adapter (G5/4 - 5/8)	Fit DDA/DDE-XL to DN8	95730434	\$128	PVC/T	Thread
DN20 F to DN8 M Adapter (G5/4 - 5/8)	Fit DDA/DDE-XL to DN8	95730436	\$128	PVDF/T	Thread
DN20 ¾" SWJ Socket (6) C7 (G5/4)	DDA/DDE 60/200 and pumps to 550L/h	95711573	\$7	PVC	Glued
DN32 F to DN20 M Adapter (G2 - 5/4)	Fit DME 375 to DN20	99227960	\$171	PVC/T	Thread
DN32 F to DN20 M Adapter (G2 - 5/4)	Fit DME 375 to DN20	99227948	\$350	PVDF/T	Thread
DN20 F/M Elbow (G5/4)	DDA/DDE-XL	99168768	\$234	PVC	Glued
DN32 1¼" SWJ Socket (7) C8 (G2)	DME 375/940 DMX H4	97629539	\$8	PVC	Glued



DISCOUNT CODE DD

DIAPHRAGM LEAK DETECTOR

- Plugs directly into pump

Suit Pump	Cable Length (m)	Part No.	Price
DME 60 to 940	0.5	96534443	\$689



DISCOUNT CODE DD

TANKS

Round chemical storage tanks.

- Translucent white LLDPE (UV stabilized) chemical tanks
- Black 160 mm screw lid
- ¾" BSP plugged drain socket
- M6 thread sintered inserts suit DDA / DDE / DDI
- 2" BSP socket for suction lance
- M6 thread sintered inserts for agitator and feet

Description	M6 Thread Inserts	Part No.	Price	Diameter (mm)	Height (mm)
Tank 40 L, PE-transp./black		96688081	\$364	420	420
Tank 60 L, PE-transp./black	✓	98148805	\$288	460	590
Tank 100 L, PE-transp./black	✓	98149057	\$377	460	840
Tank 200 L, PE-transp./black	✓	98149215	\$545	670	810
Tank 300 L, PE-transp./black	✓	98149245	\$665	670	1080
Tank 500 L, PE-transp./black	✓	98149266	\$1,271	790	1235
Tank 1000 L, PE-transp./black		96688086	\$3,454	1080	1260



DISCOUNT CODE DD

TANK ACCESSORIES

Translucent white PE bunds for chemical tanks and other accessories.

Description	Suit Tank (L)	Part No.	Price	Diameter (mm)	Height (mm)
Bund 100 L Square (Blue)	40-60	98363958	\$712	510 x 540	840
Bund 200 L Square (Blue)	100	98362900	\$561	510 x 540	840
Bund 210 L	200	98150059	\$775	770	595
Bund 400 L	300	96726834	\$1,247	770	960
Bund 500 L	500	95701272	\$1,818	860	980

Description	Material	Part No.	Price
Acc.side withdrawal G5/8 PVC/V-U2 (Drain/Outlet)	PVC/V	99226879	\$276
Acc.side withdrawal G5/8 PVC/E-U2 (Drain/Outlet)	PVC/E	99226880	\$276
Acc.side withdrawal G5/4 PVC/V-U3 (Drain/Outlet)	PVC/V	99226881	\$366
Acc.side withdrawal G5/4 PVC/E-U3 (Drain/Outlet)	PVC/E	99226893	\$366
Vent Valve	PVC/V/G 0.05 Bar	96694401	\$35
Dissolving Hopper	PVC	96726979	\$1,643
Hand Mixer	PVC	98133793	\$127
Set of floor mounting brackets	PE	98149921	\$55
Set of screws 60-500 L tank to mount pumps DDA/DDE	SS	98159495	\$33
Set of screw for pumps 40 & 1K tanks	PP	95730864	\$27
Mount plate 2 x DDA/DDE-S pumps on tank	PE	98982080	\$261
Wall Bracket 1 x DDA/DDE-XL pump	PE	99211245	\$520



CALIBRATION CYLINDER

Used to confirm the output flow of a dosing pump.

- Clear PVC tube with threaded port both ends

DISCOUNT CODE DD

Volume (L)	Length (mm)	Part No.	Price	Conn. Thread	Diameter	Scale (ml)
0.25	220	97629106	\$172	½" BSP	DN50	10
0.5	290	95711648	\$196	½" BSP	DN50	10
1	540	95714471	\$243	½" BSP	DN50	10
2	530	95714472	\$367	¾" BSP	DN80	10
5	1150	95714473	\$456	¾" BSP	DN80	10
10	630	95711148	\$903	1¼" BSP	DN150	100
20	1200	95713327	\$991	1¼" BSP	DN150	100



CALIBRATION CYLINDER/SUCTION DAMPER

For calibration of small digital pumps.

- Clear PVC tube with SWJ port connection
- Venting ball valve
- Mounting clips
- Can be installed as priming chamber
- Add vacuum pump for suction lift prime

DISCOUNT CODE DD

Volume (L)	Length (mm)	Part No.	Price	Conn. OD / ID	Mount Width (mm)	Scale (ml)
0.25	360	99217423	\$509	½" / 3/8" SWJ	80	2
0.5	431	99217427	\$541	½" / 3/8" SWJ	94	5
1.5	465	99217431	\$970	1" / ¾" SWJ	140	20
3	568	99217448	\$1,098	1" / ¾" SWJ	156	25
Vacuum Pump	-	99218131	\$838	-	-	-



DISCOUNT CODE DD

PULSATION DAMPER

Smooths pulsed flow effect from reciprocating diaphragm pumps.

- Lessens vibration and noise in mechanical and hydraulic pumps
- Generally not required for pumps under 100 L/h or digital pumps running below 70 % output
- Air bladder pressurised type
- Standard nitrogen gas fill valve
- BSP connection thread in base
- Fill with air using air fill adaptor

Suit Pump	Volume	Part No.	Price	Body / Diaph.	Conn Thread	Max Bar
< 50 L/h	0.15 L	96727176	\$624	PVC/V	½" BSP	10
< 50 L/h	0.15 L	95702058	\$563	PVC/E	½" BSP	10
60 - 200 L/h	0.35 L	95700471	\$770	PVC/V	¾" BSP	10
60 - 200 L/h	0.35 L	95702061	\$662	PVC/E	¾" BSP	10
100 - 400 L/h	0.65 L	95700996	\$1,039	PVC/V	¾" BSP	10
100 - 400 L/h	0.65 L	95702064	\$853	PVC/E	¾" BSP	10
DMH255, DME940	1.4 L	95702068	\$1,867	PVC/V	1" BSP	10
DMH255, DME940	1.4 L	95702069	\$1,583	PVC/E	1" BSP	10
DMH 257	2.6 L	95702074	\$2,432	PVC/V	1" BSP	10
DMH 257	2.6 L	95702075	\$1,995	PVC/E	1" BSP	10
Suit all	Pressure gauge	96727342	\$423	SS	¼" BSP	10
Suit all	Air fill adaptor	96727332	\$178	Brass	-	-

Notes: Other materials and volumes available on request.

DISCOUNT CODE DD

WATER METER

Potential-free pulse contact head water meters for flow proportional dosing.

- Qn 1.5 & Qn 2.5 multijet dry dial for cold water
- Qn 15 helical vane type
- Volt free contact
- Male threaded union connections
- Brass housing
- Cable length 3 m

Qn (m³/h)	Max m³/h short period	Min. flow (L/h)	Part No.	Price	Pulse Rate (l/pulse)	Conn. Thread	Max. Bar
1.5	3	50	96446846	\$485	1	½" BSP M	16
1.5	3	50	96482640	\$485	0.25	½" BSP M	16
2.5	5	70	96446847	\$485	2.5	¾" BSP M	16
2.5	5	70	96482641	\$485	0.25	¾" BSP M	16
15	30	450	96482642	\$1,656	2.5	2" BSP M	16

Notes: Use control plug 96698715 to connect cable pump.

See Controls & Monitoring Price List module for analogue 4-20 mA VFI vortex flow meters



DSA DOSING STATION

Dosing stations are small pre-designed and assembled dosing systems. DSA series has the dosing pump/s on or above the dosing tank.

DISCOUNT CODE DD

- The tank is mounted inside a containment bund
- Complete with pump and accessories as defined in the description

Description	Pump	Part No.	Price	Access	Inject Thread	Max Bar
DSA-1-200-B2-1-L02-P01-CT1-02	DDA7.5-16F	98382140	\$14,056	PVC/T	½" BSP	16
DSA-1-200-B2-1-L02-P01-CT1-02	DDA12-10F	98382161	\$14,354	PVC/T	½" BSP	10
DSA-1-200-B2-1-L02-P01-CT1-02	DDA17-7F	98382162	\$14,354	PVC/T	½" BSP	7
DSA-1-200-B2-1-L02-P01-CT1-02	DDA 30-4 F	98382163	\$14,599	PVC/T	½" BSP	4
DSA-2-200-B2-1-L04-P23-CT2-12	DDA7.5-16F	98382165	\$19,080	PVC/T	½" BSP	16
DSA-2-200-B2-1-L04-P23-CT2-12	DDA12-10F	98382166	\$19,671	PVC/T	½" BSP	10
DSA-2-200-B2-1-L04-P23-CT2-12	DDA17-7F	98382167	\$19,671	PVC/T	½" BSP	7
DSA-2-200-B2-1-L04-P23-CT2-12	DDA 30-4F	98382168	\$20,164	PVC/T	½" BSP	4
DSA-1-500-B6-1-L02-P01-CT1-02	DDA7.5-16F	98382170	\$14,721	PVC/T	½" BSP	16
DSA-1-500-B6-1-L02-P01-CT1-02	DDA12-10F	98382171	\$15,017	PVC/T	½" BSP	10
DSA-1-500-B6-1-L02-P01-CT1-02	DDA 17-7F	98382172	\$15,017	PVC/T	½" BSP	7
DSA-1-500-B6-1-L02-P01-CT1-02	DDA 30-4F	98382173	\$15,261	PVC/T	½" BSP	4
DSA-2-500-B6-1-L04-P23-CT2-12	DDA7.5-16F	98382175	\$19,745	PVC/T	½" BSP	16
DSA-2-500-B6-1-L04-P23-CT2-12	DDA12-10F	98382176	\$20,336	PVC/T	½" BSP	10
DSA-2-500-B6-1-L04-P23-CT2-12	DDA 17-7F	98382177	\$20,336	PVC/T	½" BSP	7
DSA-2-500-B6-1-L04-P23-CT2-12	DDA 30-4F	98382178	\$20,829	PVC/T	½" BSP	4



DSB DOSING STATION

Dosing stations are small pre-designed dosing systems. The DSB is a simple version of DSA series and has 1 pump, with either a small tank in a bund or no tank to suit 20 L drum.

- Foot valve, injection valve, 6 m 6 / 9 PE tubing and signal cables
- Standard systems are offered with either PV (3 Bar back pressure valve) or MFV (multifunction valve)

DISCOUNT CODE DD

DSB DOSING STATION - WITH PV

Description	Pump	Part No.	Price	Access	Inject Thread	Max Bar
DSB 1 X B1 1 L02 P01 02	DDA 7.5-16 AR	98367870	\$4,247	PVC/T	½" BSP	16
DSB 1 X B1 1 L02 P01 02	DDA 7.5-16 FCM	98364725	\$5,450	PVC/T	½" BSP	16
DSB 1 40 B1 1 L02 P01 02	DDA 7.5-16 AR	98367911	\$4,750	PVC/T	½" BSP	16
DSB 1 40 B1 1 L02 P01 02	DDA 7.5-16 FCM	98367912	\$5,956	PVC/T	½" BSP	16
DSB 1 60 B1 1 L02 P01 02	DDA 7.5-16 AR	98367914	\$4,587	PVC/T	½" BSP	16
DSB 1 60 B1 1 L02 P01 02	DDA 7.5-16 FCM	98367915	\$5,792	PVC/T	½" BSP	16
DSB 1 100 B1 1 L02 P01 02	DDA 7.5-16 AR	98367916	\$4,566	PVC/T	½" BSP	16
DSB 1 100 B1 1 L02 P01 02	DDA 7.5-16 FCM	98367917	\$5,771	PVC/T	½" BSP	16
DSB 1 100 B1 1 L02 P01 02	DDA 12-10 AR	98367918	\$4,862	PVC/T	½" BSP	10
DSB 1 100 B1 1 L02 P01 02	DDA 12-10 FCM	98367919	\$6,067	PVC/T	½" BSP	10



DISCOUNT CODE DD

DSB DOSING STATION - WITH MFV

Description	Pump	Part No.	Price	Access	Inject Thread	Max Bar
DSB 1 X B1 1 L02 P1 02	DDA 7.5-16 AR	98367920	\$4,437	PVC/T	½" BSP	16
DSB 1 X B1 1 L02 P1 02	DDA 7.5-16 FCM	98367921	\$5,641	PVC/T	½" BSP	16
DSB 1 40 B1 1 L02 P1 02	DDA 7.5-16 AR	98367924	\$4,944	PVC/T	½" BSP	16
DSB 1 40 B1 1 L02 P1 02	DDA 7.5-16 FCM	98367925	\$6,146	PVC/T	½" BSP	16
DSB 1 60 B1 1 L02 P1 02	DDA 7.5-16 AR	98364722	\$4,977	PVC/T	½" BSP	16
DSB 1 60 B1 1 L02 P1 02	DDA 7.5-16 FCM	98364723	\$6,183	PVC/T	½" BSP	16
DSB 1 100 B1 1 L02 P1 02	DDA 7.5-16 AR	98367926	\$4,757	PVC/T	½" BSP	16
DSB 1 100 B1 1 L02 P1 02	DDA 7.5-16 FCM	98367927	\$5,963	PVC/T	½" BSP	16
DSB 1 100 B1 1 L02 P1 02	DDA 12-10 AR	98367928	\$5,053	PVC/T	½" BSP	10
DSB 1 100 B1 1 L02 P1 02	DDA 12-10 FCM	98367929	\$6,257	PVC/T	½" BSP	10



DSU DOSING STATION

Dosing stations are small pre-designed dosing systems. The DSU series has the dosing pump/s on the side of the dosing bund.

- The tank is mounted inside a containment bund
- Suction manifold includes calibration cylinder and suction filter
- Complete with pump and accessories

DISCOUNT CODE DD

Description	Pump	Part No.	Price	Access	Inject Thread	Max Bar
DSU-1-200-B2-1-L22-P2-CT1-02	DDA7.5-16F	98725582	\$16,942	PVC/T	½" BSP	16
DSU-1-200-B2-1-L22-P2-CT1-02	DDA12-10F	98725583	\$17,564	PVC/T	½" BSP	10
DSU-1-200-B2-1-L22-P2-CT1-02	DDA17-7F	98725584	\$17,861	PVC/T	½" BSP	7
DSU-1-200-B2-1-L22-P2-CT1-02	DDA 30-4 F	98725585	\$18,102	PVC/T	½" BSP	4
DSU-2-200-B2-1-L24-P23-CT2-12	DDA7.5-16F	98726313	\$22,347	PVC/T	½" BSP	16
DSU-2-200-B2-1-L24-P23-CT2-12	DDA12-10F	98726314	\$22,928	PVC/T	½" BSP	10
DSU-2-200-B2-1-L24-P23-CT2-12	DDA17-7F	98726315	\$23,226	PVC/T	½" BSP	7
DSU-2-200-B2-1-L24-P23-CT2-12	DDA 30-4F	98726316	\$23,707	PVC/T	½" BSP	4
DSU-1-500-B6-1-L22-P2-CT1-02	DDA7.5-16F	98729312	\$18,671	PVC/T	½" BSP	16
DSU-1-500-B6-1-L22-P2-CT1-02	DDA12-10F	98729313	\$18,942	PVC/T	½" BSP	10
DSU-1-500-B6-1-L22-P2-CT1-02	DDA 17-7F	98729314	\$19,244	PVC/T	½" BSP	7
DSU-1-500-B6-1-L22-P2-CT1-02	DDA 30-4F	98729315	\$19,481	PVC/T	½" BSP	4
DSU-2-500-B6-1-L24-P23-CT2-12	DDA7.5-16F	98729862	\$23,729	PVC/T	½" BSP	16
DSU-2-500-B6-1-L24-P23-CT2-12	DDA12-10F	98729863	\$24,307	PVC/T	½" BSP	10
DSU-2-500-B6-1-L24-P23-CT2-12	DDA 17-7F	98729864	\$24,604	PVC/T	½" BSP	7
DSU-2-500-B6-1-L24-P23-CT2-12	DDA 30-4F	98729865	\$25,075	PVC/T	½" BSP	4



DISCOUNT CODE DD

DID - ANALYSER & CONTROLLER WALL MOUNT**Wall mounted bypass flow cell systems for clean water applications.**

- Fully digital multiple parameter controller
- Adjustable set point and alarm points
- Fully integrated compound loop PID controller with flow input
- Measures and controls up to three parameter (DID-3 only, E.g., free Cl₂, total Cl₂ & pH) at the same time
- Plug - in intelligent membrane electrodes
- Data logger with export via USB
- 240 V 1 phase power
- Wall mounted packages that can be combined with dosing stations or used individually
- On board bypass flow cell, flow control, flow switch, filter and isolation valve
- U2 metric & U7 imperial tube connection sets

GRUNDFOS BY S::CAN WALL MOUNTED BYPASS FLOW CELL SYSTEMS

Model	Tube Connection (mm)	Part No.	Price	Measure & Control	Measurement range	Max. Bar
DID-1 BF1-FCL2	½" BSP	98915656	\$7,456	Free Cl ₂	0-2 ppm	3
DID-1 BF1/PH	½" BSP	98915665	\$5,207	pH	2-12 pH	3
DID-3 BF3-FCL2/PH	½" BSP	98915661	\$9,709	Free Cl ₂ & pH	0-2 ppm / 2-12 pH	3
DID-3 BF3-FCL2/TCL2/PH	½" BSP	98915662	\$13,688	Free and Total Cl ₂ & pH	0-2 ppm / 2-12 pH	3
DID-3 BF3	½" BSP	99083725	\$4,527			3

Notes: Measuring parameter and range is set by the sensor. For systems with parameters or measuring range not listed above, choose DID3 BF3 system, then choose required sensor by range and 1 m cable from accessories lists.



DISCOUNT CODE DD

DID - ANALYSER & CONTROLLER TANK IMMERSION

- Separate DID-1 controller
- Submersible sensors (IP68) with 7.5m cable attached
- Complete with sensor holder to suit local PVC pipe

GRUNDFOS BY S::CAN TANK IMMERSION SYSTEMS

Model	Tube Connection (mm)	Part No.	Price	Measure & Control	Measurement range
DID-1 TI1-PH		98915666	\$4,425	pH	2-12 pH
DID-1 TI1-ORP		98915667	\$4,862	ORP	-2000 – 2000mV



DISCOUNT CODE DD

DID - GRUNDFOS BY S::CAN ACCESSORIES

Sensors for Bypass Flow cell

- Individual sensors for customised solutions or add-on to standard systems
- All sensors include temperature measurement in addition to the main parameter

Parameter	Connection	Part No.	Price	Measure	Measurement range	Max. Bar
Free Chlorine	Quick fit	99290639	\$3,765	FCL	0-2 ppm	3
Free Chlorine	Quick fit	99290641	\$3,765	FCL	0-20 ppm	3
Total Chlorine	Quick fit	99290664	\$3,886	TCL	0-2 ppm	3
Total Chlorine	Quick fit	99290665	\$3,886	TCL	0-20 ppm	3
Chlorine Dioxide	Quick fit	98915678	\$3,906	ClO2	0-2ppm	1
Chlorine Dioxide	Quick fit	98915679	\$3,906	ClO2	0-20 ppm	1
Hydrogen Peroxide	Quick fit	98915680	\$4,061	H2O2	0-200 ppm	1
Hydrogen Peroxide	Quick fit	98915681	\$4,061	H2O2	0-2000 ppm	1
Peracetic acid	Quick fit	98915682	\$4,061	PAA	0-200 ppm	1
Peracetic acid	Quick fit	98915683	\$4,061	PAA	0-2000 ppm	1
pH	Quick fit	98915684	\$1,515	pH	2-12	10
ORP (Redox)	Quick fit	98915686	\$1,953	mV	-2000mV to 2000mV	10
Conductivity	Quick fit	98915688	\$3,027	EC	1-500,000 µS/cm	10

Sensors for Tank Immersion

	Connection	Part No.	Price	Measure	Measurement range	Max. Bar
pH	Fixed 7.5 m cable	98915685	\$1,797	pH	2-12 pH	10
ORP (Redox)	Fixed 7.5 m cable	98915687	\$2,329	mV	-2000 – 2000mV	10
Conductivity	Fixed 7.5 m cable	98915689	\$3,198	EC	1-500,000 µS/cm	10

Model	Type	Part No.	Price	Measure	Measurement range	Max. Bar
Sensor Cable		98915690	\$98	All	1 m	
Sensor Cable	Extension	98915691	\$217	All	10m	
Sensor Cable	Extension	98915692	\$348	All	20m	
CU382-1	Controller	98915672	\$2,381		1 parameter	
CU382-3	Controller	98915673	\$2,999		3 parameter	
Acc. DID BF-1/3	Inlet assembly	99074484	\$638			
Acc. DID BF-1,	Flow cell 1 sensor	99074485	\$377			
Acc. DID BF-3,	Flow cell 3 sensor	99074486	\$648			
Valve pres. ret	Anti-siphon valve	96609179	\$163			0.2
Buffer Sol. pH*	3 x 100ml	96609165	\$83	4.01/7.00/9.18		
Sensor Holder	Tank Immersion	99074490	\$188	TI sensors only		
Sensor guard	Tank Immersion	99074487	\$158	TI sensors only		

Notes: *Discount Code M2

Extension cables extend the 1m sensor cable. They do not replace the 1m cable.



DISCOUNT CODE DD

R3 - FILTER & PRESSURE CONTROL

Sample water filtration and pressure control.

Model	Tube Connection (mm)	Part No.	Price
R3 Filter and Pressure Regulator	6/12	97661795	\$910



DISCOUNT CODE DD

DIT - PHOTOMETER

Hand held measurement device for testing chlorine, chlorine dioxide, chlorite, ozone & pH in water.

- Battery operated, complete with carry case
- DIT-L has 100 test tabs
- DIT-IR Infrared data transfer device from DIT-M or L to PC

Model	Measurement	Part No.	Price
DIT-M	19 parameters	95727742	\$2,408
DIT - L	Cl ₂ , ClO ₂ , Cl ₃ , O ₃ , pH	95727743	\$1,250
DIT - IR	Data Transfer to PC	95727744	\$702

Reagent Tablets	Measurement	Part No.	Price
DPD - 1*	Free Cl ₂ tabs Qty 250	95727747	\$109
Phenol Red*	pH 6.5-8.4 tabs Qty 250	95727753	\$122

Notes: * Discount Code M2



DISCOUNT CODE DD

OCD - OXIPERM PRO - CHLORINE DIOXIDE GENERATOR

Compact system includes water control, acid and sodium chlorite pumps, on-board mixing/reactor/batch tank, full automated controls and a dosing pump.

- Add measuring cell for full measurement control
- Two colour codes foot valves
- Dosing pump for 5 & 10 g/h DDA 7.5 - 16 AR
- Dosing pump for 30 & 60 g/h DDI 60 - 10 AR
- Produces 0.2% chlorine dioxide solution
- Requires 7.5% NaClO₂ & 9% HCl

Description	Size - Dosing Pump	Part No.	Price
OCD-162-5-S/G	5 g/h - 7.5 L/h	95735153	\$25,024
OCD-162-10-S/G	10 g/h - 7.5 L/h	95735161	\$28,045
OCD-162-30-P/G2	30 g/h - 60 L/h	95735175	\$38,615
OCD-162-60-P/G2	60 g/h - 60 L/h	95718458	\$44,464

Accessories	Size - Dosing Pump	Part No.	Price
IV 0200-16 PV/T/C	4/6, 6/9, 6/12, 9/12	95730932	\$215
Water inlet tubing	6/9 PE 10 m	96441192	\$44
Drip tray	Red PE	95702450	\$341
Drip tray	Blue PE	95702451	\$341
Measuring cell	Gold electrode < 40°C	95737681	\$4,946
Cap assembly 4/6	For 4/6 ETFE tube	96727601	\$141
Hose ETFE-4/6-10 m 3/U2	4/6 - 20	95730338	\$221
Hose 6/9 10 m ETFE	6/9 - 20	95730341	\$416

Smart Digital S DDA - DDE Product Identification

Type key

Example:	DDA	7.5-	16	AR-	PP	/V	/C	-F	-3	1	U2U2	F	G
Type Range	DDA												Special Variant
DDC													C3 Inspection Certificate 3.1 (EN 10204)
DDE													Design
Maximum Flow [l/h]													G Grundfos
Maximum Pressure [bar]													Mains Plug
Control Variant													F EU
B Basic (DDE)													B USA, Canada
P B with pulse mode (DDE)													G UK
PR P with relay output (DDE)													I Australia, New Zealand, Taiwan
A Standard (DDC)													E Switzerland
AR A with alarm relay and analog input (DDA, DDC)													J Japan
FC AR with FlowControl (DDA)													L Argentina
FCM FC with flow measurement (DDA)													X No plug (only 24-48 VDC)***
Dosing Head Variant													Connection, Suction/Discharge
PP Polypropylene													U2U2 Hose 4/6 mm, 6/9 mm, 6/12 mm, 9/12 mm
PVC Polyvinyl chloride**													U7U7 Hose 0.17" x 1/4"; 1/4" x 3/8"; 3/8" x 1/2"
PV PVDF (polyvinylidene fluoride)													AA Threaded, Rp 1/4", female (SS)
SS Stainless steel 1.4401													VV Threaded, NPT 1/4", female (SS)
Gasket Material													XX No connection
E EPDM													Installation Set*
V FKM													I001 Hose 4/6 mm (up to 7.5 l/h, 13 bar)
T PTFE													I002 Hose 9/12 mm (up to 60 l/h, 9 bar)
Valve Ball Material													I003 Hose 0.17" x 1/4" (up to 7.5 l/h, 13 bar)
C Ceramic													I004 Hose 3/8" x 1/2" (up to 60 l/h, 10 bar)
SS Stainless steel 1.4401													Valve Type
Control Cube Position													1 Standard
F Front-mounted (change to left and right possible)													2 Spring-loaded
X No control cube (DDE)													0.1 bar suction opening pressure
													0.1 bar discharge opening pressure
													Supply Voltage
													3 1 x 100-240 V, 50/60 Hz
													I 24-48 VDC (DDC)***

* Including 2 pump connections, foot valve, injection unit, 6 m PE discharge hose, 2 m PVC suction hose, 2 m PVC deaeration hose (4/6 mm)

** PVC dosing heads only up to 10 bar

*** Planned for 2013

Please Note:

Product ID charts are offered to help customers understand the components, features and materials in the selected product.

ID charts are not model selection tools. Not all combinations of components are available as a product.

Grundfos Aus/NZ stock only a limited range of products.

Should you have a specific requirement contact your Grundfos representative to enquire about possibilities.

Smart Digital S DDA Technical Data

Data			7.5-16	12-10	17-7	30-4
Mechanical Data	Turndown ratio (setting range)	[1:X]	3000	1000	1000	1000
	Max. dosing capacity	[l/h]	7.5	12.0	17.0	30.0
		[gph]	2.0	3.1	4.5	8.0
	Max. dosing capacity with SlowMode 50 %	[l/h]	3.75	6.00	8.50	15.00
		[gph]	1.00	1.55	2.25	4.00
	Max. dosing capacity with SlowMode 25 %	[l/h]	1.88	3.00	4.25	7.50
		[gph]	0.50	0.78	1.13	2.00
	Min. dosing capacity	[l/h]	0.0025	0.0120	0.0170	0.0300
		[gph]	0.0007	0.0031	0.0045	0.0080
	Max. operating pressure	[bar]	16	10	7	4
		[psi]	230	150	100	60
	Max. stroke frequency ¹⁾	[strokes/min]	190	155	205	180
	Stroke volume	[ml]	0.74	1.45	1.55	3.10
	Accuracy of repeatability	[%]	± 1			
	Max. suction lift during operation ²⁾	[m]	6			
	Max. suction lift when priming with wet valves ²⁾	[m]	2	3	3	2
	Min. pressure difference between suction and discharge side	[bar]	1 (FC and FCM: 2)			
	Max. inlet pressure, suction side	[bar]	2			
	Max. viscosity in SlowMode 25 % with spring-loaded valves ³⁾	[mPas] (= cP)	2500	2500	2000	1500
	Max. viscosity in SlowMode 50 % with spring-loaded valves ³⁾	[mPas] (= cP)	1800	1300	1300	600
	Max. viscosity without SlowMode with spring-loaded valves ³⁾	[mPas] (= cP)	600	500	500	200
	Max. viscosity without spring-loaded valves ³⁾	[mPas] (= cP)	50	300	300	150
	Min. internal hose/pipe diameter suction/discharge side ^{4), 2)}	[mm]	4	6	6	9
	Min. internal hose/pipe diameter suction/discharge side (high viscosity) ⁴⁾	[mm]	9			
	Min./Max. liquid temperature	[°C]	-10/45			
	Min./Max. ambient temperature	[°C]	0/45			
Electrical Data	Voltage	[V]	100-240 V, 50/60 Hz			
	Length of mains cable	[m]	1.5			
	Max. inrush current for 2 ms at 100 V	[A]	8			
	Max. inrush current for 2 ms at 230 V	[A]	25			
	Max. power consumption P ₁	[W]	24 ⁵⁾			
	Enclosure class		IP 65, Nema 4X			
	Electrical safety class		II			
Signal Input	Max. load low-level / empty tank / pulse / external stop input		12 V, 5 mA			
	Min. pulse length	[ms]	5			
	Max. pulse frequency	[Hz]	100			
	Impedance at analog 0/4-20 mA input	[Ω]	15			
	Max. resistance in level/pulse circuit	[Ω]	1000			
Signal Output	Max. ohmic load on relay output	[A]	0.5			
	Max. voltage on relay/analog output	[V]	30 VDC/30 VAC			
	Impedance at 0/4-20 mA analog output	[Ω]	500			
Weight/Size	Weight (PVC, PP, PVDF)	[kg]	2.4	2.4	2.6	
	Weight (stainless steel)	[kg]	3.2	3.2	4.0	
	Diaphragm diameter	[mm]	44	50	74	
Sound Pressure	Max. sound pressure level	[dB(A)]	60			
Approvals			CE, CB, CSA-US, NSF61, GOST, C-Tick			

1) The maximum stroke frequency varies depending on calibration

2) Data is based on measurements with water

3) Maximum suction lift: 1 m, dosing capacity reduced (approx. 30 %)

4) Length of suction line: 1.5 m, length of discharge line: 10 m (at max. viscosity)

5) With E-box

Smart Digital S DDE Technical Data

Data		6-10	15-4
Mechanical Data	Turndown ratio (setting range)	[1:X]	1000
	Max. dosing capacity	[l/h]	6.0
		[gph]	1.5
	Min. dosing capacity	[l/h]	0.0060
		[gph]	0.0015
	Max. pressure	[bar]	10
		[psi]	150
	Max. stroke frequency	[strokes/min]	140
	Stroke volume	[ml]	0.81
	Accuracy of repeatability	[%]	± 5
	Max. suction lift during operation ¹⁾	[m]	6
	Max. suction lift when priming with wet valves ¹⁾	[m]	2
			3
	Min. pressure difference between suction and discharge side	[bar]	1
	Max. Inlet pressure, suction side	[bar]	2
	Max. viscosity with spring-loaded valves ²⁾	[mPas] (– cP)	600
			500
	Max. viscosity without spring-loaded valves ²⁾	[mPas] (– cP)	50
			50
Electrical Data	Min. internal hose/pipe diameter suction/discharge side ^{1), 3)}	[mm]	4
			6
	Min. internal hose/pipe diameter suction/discharge side (HV) ³⁾	[mm]	9
	Min./Max. liquid temperature	[°C]	-10/45
	Min./Max. ambient temperature	[°C]	0/45
	Voltage	[V]	100-240 V, 50/60 Hz
	Length of mains cable	[m]	1.5
Signal Input	Max. inrush current for 2 ms at 100 V	[A]	8
	Max. inrush current for 2 ms at 230 V	[A]	25
	Max. power consumption P ₁	[W]	19
	Enclosure class		IP 65, Nema 4X
	Electrical safety class		II
Signal Output	Max. load low-level / empty tank / pulse / external stop input		12 V, 5 mA
	Min. pulse length	[ms]	5
	Max. pulse frequency	[Hz]	100
	Max. resistance in level/pulse circuit	[Ω]	1000
Weight/Size	Max. ohmic load on relay output	[A]	0.5
	Max. voltage on relay output	[V]	30 VDC/30 VAC
Weight/Size	Weight (PVC, PP, PVDF)	[kg]	2.4
			2.4
	Weight (stainless steel)	[kg]	3.2
Sound Pressure			3.2
	Diaphragm diameter	[mm]	44
Sound Pressure			50
	Max. sound pressure level	[dB(A)]	60
Approvals		CE, CB, CSA-US, NSF61, GOST, C-Tick	

1) Data is based on measurements with water

2) Maximum suction lift: 1 m, dosing capacity reduced (approx. 30 %)

3) Length of suction line: 1.5 m, length of discharge line: 10 m (at max. viscosity)

Smart Digital XL Identification

The type key is used to identify the precise pump and is not used for configuration purposes.

Example: **DDA 60-10 FCM-PVC/V/C-F-31U3U3FG**

Type	
DDA 60-10 FCM-PVC/V/C-F-31U3U3FG	
DDA	
DDE	
Max. flow [l/h]	
DDA 60-10 FCM-PVC/V/C-F-31U3U3FG	
Max. pressure [bar]	
DDA 60-10 FCM-PVC/V/C-F-31U3U3FG	
Control variant	
DDA 60-10 FCM-PVC/V/C-F-31U3U3FG	
B	Basic (only DDE)
AR	DDA: Alarm relay DDE: B with pulse mode, analog mode and alarm relay
FCM	AR + FlowControl function
Dosing head variant	
DDA 60-10 FCM-PVC/V/C-F-31U3U3FG	
PVC	Polyvinyl chloride
PV	PVDF
SS	Stainless steel 1.4401
PVC-L	PVC + integrated diaphragm leakage detection
PV-L	PV + integrated diaphragm leakage detection
SS-L	SS + integrated diaphragm leakage detection
Gasket material	
DDA 60-10 FCM-PVC/V/C-F-31U3U3FG	
E	EPDM
V	FKM
T	PTFE
Valve ball material	
DDA 60-10 FCM-PVC/V/C-F-31U3U3FG	
C	Ceramics
SS	Stainless steel 1.4401
Control cube	
DDA 60-10 FCM-PVC/V/C-F-31U3U3FG	
F	Front mounted (change to left or right is possible)
Supply voltage	
DDA 60-10 FCM-PVC/V/C-F-31U3U3FG	
3	100-240 V 50/60 Hz single phase
Valve type	
DDA 60-10 FCM-PVC/V/C-F-31U3U3FG	
1	Standard
2	Spring-loaded
Connection, inlet / outlet	
DDA 60-10 FCM-PVC/V/C-F-31U3U3FG	
U3U3	2x Union nut G 5/4"
	2x Hose connector 10/20 mm
	2x Hose clamp
	2x Pipe connector 25 mm
A7A7	2x Union nut G 5/4"
	2x Inlay external thread 3/4" NPT
A1A1	2x Union nut G 5/4" (SS)
	2x Inlay internal thread Rp 3/4" (SS)

Connection, inlet / outlet	
A3A3	2x Union nut G5/4 (SS)
	2x Inlay internal thread 3/4" NPT (SS)
Mains plug	
DDA 60-10 FCM-PVC/V/C-F-31U3U3FG	
F	EU (Schuko)
B	USA, Canada
G	UK
I	Australia, New Zealand, Taiwan
E	Switzerland
J	Japan
L	Argentina
Design / approval	
DDA 60-10 FCM-PVC/V/C-F-31U3U3FG	
G	Grundfos red
A	Grundfos green
B	Grundfos black
X	Neutral / black
C	China approval
Special variant	
DDA 60-10 FCM-PVC/V/C-F-31U3U3FGC3	
Standard	
C3	Inspection certificate 3.1 (EN 10204)

DDA XL Technical Data

Data		60-10	120-7	200-4	
	Turn-down ratio (setting range)	[1:X]	800	800	800
		[l/h]	60	120	200
	Max. dosing capacity	[gph]	15.8	32	52.8
		[l/h]	30	60	100
	Max. dosing capacity with SlowMode 50 %	[gph]	7.9	16	26.4
		[l/h]	15	30	50
	Max. dosing capacity with SlowMode 25 %	[gph]	3.95	8	13.2
		[l/h]	0.075	0.15	0.25
	Min. dosing capacity	[gph]	0.0197	0.04	0.066
		[bar]	10	7	4
Max. operating pressure (backpressure)	[psi]	145	101	58	
Max. stroke frequency ¹⁾	[strokes/min]	198	190	190	
Stroke volume	[ml]	5.56	11.56	19.3	
Accuracy of repeatability ⁵⁾	[%]	1.5 SP + 0.1 FS ⁶⁾			
Max. suction lift during operation ²⁾	[m]	3			
Max. suction lift when priming with wet valves ²⁾	[m]	1.5			
Mechanical data	Min. pressure difference between inlet and outlet side	[bar]	1 ⁸⁾		
		[psi]	14.5 ⁸⁾		
	Max. inlet pressure, inlet side	[bar]	2		
		[psi]	29		
	Max. viscosity in SlowMode 25 % with spring-loaded valves ³⁾	[mPas] (= cP)	3000	3000	2000
	Max. viscosity in SlowMode 50 % with spring-loaded valves ³⁾	[mPas] (= cP)	2000	1500	1000
	Max. viscosity without SlowMode with spring-loaded valves ³⁾	[mPas] (= cP)	1000	1000	500
	Max. viscosity without spring-loaded valves ³⁾	[mPas] (= cP)	100		
	Min. internal hose/pipe diameter inlet/outlet side ^{2), 4)}	[mm]	19		
	Min. internal hose/pipe diameter inlet/outlet side (high viscosity) ⁴⁾	[mm]	19		
	Min. / Max. liquid temperature (PVDF, SS)	[°C]	0/50		
	Min. / Max. liquid temperature (PVC)	[°C]	0/40		
	Min. / Max. ambient temperature	[°C]	0/45		
	Min. / Max. storage temperature (PVDF, SS)	[°C]	-20/70		
Min. / Max. storage temperature (PVC)	[°C]	-20/45			
Max. relative humidity (non-condensing)	[%]	90			
Max. altitude above sea level	[m]	2000			
Electrical data	Voltage	[V]	100-240 V ± 10 %, 50/60 Hz		
	Length of mains cable	[m]	1.5		
	Max. inrush current for 2 ms (100 V)	[A]	35		
	Max. inrush current for 2 ms (240 V)	[A]	70		
	Max. power consumption P _I	[W]	62		
	Enclosure class		IP65, Nema 4X		
	Electrical safety class		I		
Pollution degree		2			
Signal input	Max. load for level input, pulse input and External stop input		12 V, 5 mA		
	Min. pulse length	[ms]	5		
	Max. pulse frequency	[Hz]	100		
	Impedance at 0/4-20 mA analog input	[Ω]	15		
	Accuracy of analog input (full-scale value)	[%]	± 0.5		
	Min. resolution of analog input	[mA]	0.02		
	Max. loop resistance in external circuit	[Ω]	150		
Signal output	Max. resistive load on relay output	[A]	0.5		
	Max. voltage on relay/analog output	[V]	30 VDC / 30 VAC		
	Max. loop resistance in external circuit of the 0/4-20 mA analog output	[Ω]	500		
	Accuracy of analog output (full-scale value)	[%]	± 0.5		
	Min. resolution of analog output	[mA]	0.02		
Weight/size	Weight (PVC, PVDF)	[kg]	6.7	7.9	8.9
	Weight (stainless steel)	[kg]	7.2	8.3	9.1
	Diaphragm diameter	[mm]	74	97	117
Sound pressure	Max. sound pressure level	[dB(A)]	80		
Approvals		CE, CSA-US, NSF61, EAC, ACS, RCM			

1) The maximum stroke frequency varies depending on calibration

2) Data is based on measurements with water

3) Maximum suction lift: 1 m, dosing capacity reduced (approx. 30 %)

4) Length of inlet line: 1.5 m, length of outlet line: 10 m (at max. viscosity)

5) FS = Full-scale (maximum actual dosing flow), SP = Setpoint

6) For FCM control variant and for pumps with diaphragm leakage detection the pressure difference must be at least 2 bar / 29 psi.

DDE XL Technical Data

Data		60-10	120-7	200-4	
Mechanical data	Turn-down ratio (setting range)	[1:X]	800	800	800
	Max. dosing capacity	[l/h]	60	120	200
		[gph]	15.8	32	52.8
	Min. dosing capacity	[l/h]	0.075	0.15	0.25
		[gph]	0.0197	0.04	0.066
	Max. operating pressure	[bar]	10	7	4
		[psi]	145	101	58
	Max. stroke frequency	[strokes/min]	198	190	190
	Stroke volume	[ml]	5.56	11.58	19.3
	Accuracy of repeatability ⁴⁾	[%]	5 SP + 0.1 FS		
	Max. suction lift during operation ¹⁾	[m]	3		
	Max. suction lift when priming with wet valves ¹⁾	[m]	1.5		
	Min. pressure difference between inlet and outlet side	[bar]	1		
		[psi]	14.5		
	Max. inlet pressure, inlet side	[bar]	2		
		[psi]	29		
	Max. viscosity with spring-loaded valves ²⁾	[mPas] (= cP)	1000	1000	500
	Max. viscosity without spring-loaded valves ²⁾	[mPas] (= cP)	100		
	Min. internal hose/pipe diameter inlet/outlet side ^{1) 3)}	[mm]	19		
	Min. internal hose/pipe diameter inlet/outlet side (high viscosity) ³⁾	[mm]	19		
Min. / Max. liquid temperature (PVDF, SS)	[°C]	0/50			
Min. / Max. liquid temperature (PVC)	[°C]	0/40			
Min. / Max. ambient temperature	[°C]	0/45			
Min. / Max. storage temperature (PVDF, SS)	[°C]	-20/70			
Min. / Max. storage temperature (PVC)	[°C]	-20/45			
Max. relative humidity (non-condensing)	[%]	90			
Max. altitude above sea level	[m]	2000			
Electrical data	Voltage	[V]	100-240 V ± 10 %, 50/60 Hz		
	Length of mains cable	[m]	1.5		
	Max. inrush current for 2 ms (100 V)	[A]	35		
	Max. inrush current for 2 ms (240 V)	[A]	70		
	Max. power consumption P _I	[W]	62		
	Enclosure class		IP65, Nema 4X		
	Electrical safety class		I		
Pollution degree		2			
Signal input	Max. load for level input, pulse input and External stop input		12 V, 5 mA		
	Min. pulse length	[ms]	5		
	Max. pulse frequency	[Hz]	100		
	Max. loop resistance in external circuit	[Ω]	150		
	Impedance at 4-20 mA analog input	[Ω]	15		
	Accuracy of analog input (full-scale value)	[%]	± 0.5		
	Min. resolution of analog input	[mA]	0.02		
Signal output	Max. resistive load on relay output	[A]	0.5		
	Max. voltage on relay output	[V]	30 VDC / 30 VAC		
Weight/size	Weight (PVC, PVDF)	[kg]	6.7	7.9	6.9
	Weight (stainless steel)	[kg]	7.2	8.3	9.1
	Diaphragm diameter	[mm]	74	97	117
Sound pressure	Max. sound pressure level	[dB(A)]	80		
Approvals	CE, CSA-US, NSF61, EAC, ACS, RCM				

1) Data is based on measurements with water

2) Maximum suction lift: 1 m, dosing capacity reduced (approx. 30 %)

3) Length of inlet line: 1.5 m, length of outlet line: 10 m (at max. viscosity)

4) FS = Full-scale, SP = Setpoint

DME Type Key

Example:		DME	60-	10	AR-	PP/	E/	C-	F-	3	1	A1	F
Type range													
Maximum capacity [l/h]													
Maximum pressure [bar]													
Control variant													
AR	Standard												
AP	Standard + Profibus												
B	Basic												
Dosing head material													
PP	Polypropylene												
PV	PVDF												
SS	Stainless steel 1.4401												
Gasket material													
E	EPDM												
T	PTFE												
V	FKM												
Valve ball material													
C	Ceramic												
G	Glass												
SS	Stainless steel 1.4401												
T	PTFE												
Control panel													
F	Front-fitted												
S	Side-fitted												
Voltage													
3	1 x 100-240 V, 50/60 Hz												
Valve type													
1	Standard												
2	Spring-loaded												
Connection, suction/discharge													
A1	Threaded, Rp 3/4"												
A2	Threaded, Rp 1 1/4"												
A3	Threaded, NPT 3/4"												
A4	Threaded, NPT 1 1/4"												
Q	Hose 19/27 and 25/34												
Mains plug													
F	EU												
G	UK												
I	Australia												
B	USA												
J	Japan												
E	Switzerland												

DME (60-940 I/H) Technical Data

Pump		DME 60	DME 150	DME 375	DME 940	
Mechanical Data	Maximum capacity	[l/h]	60	150	376	940
	Maximum capacity with anti-cavitation 75%	[l/h]	45	112	282	705
	Maximum capacity with anti-cavitation 50% (approx.)	[l/h]	33.4	83.5	210	525
	Maximum capacity with anti-cavitation 25% (approx.)	[l/h]	16.1	40.4	101	252
	Maximum pressure	[bar]	10	4	10	4
	Maximum stroke frequency [stroke/min]		160			
	Maximum suction lift during operation [m]		6			
	Maximum suction lift when priming with wet valves [m]		1.5			
	Maximum viscosity with spring-loaded valves ★ ¹ [mPas] (= cP)		3000 mPas at 50% capacity			
	Maximum viscosity without spring-loaded valves ★ ¹ [mPas] (= cP)		200			
	Maximum liquid temperature [°C]		50			
	Minimum liquid temperature [°C]		0			
	Maximum ambient temperature [°C]		45			
	Minimum ambient temperature [°C]		-10			
	Accuracy of repeatability		±1%			
Weight & Size	Weight [kg]	11.4	11.8	21	22.5	
	Diaphragm diameter [mm]	79	106	124	173	
Electrical Data	Supply voltage [V]	1 x 100-240 V, 50-60 Hz				
	Maximum current consumption [A]	at 100 V	1.25	2.40		
		at 230 V	0.67	1.0		
	Maximum power consumption P ₁ [W]		67.1	240		
	Enclosure class		IP 65			
Cable Data	Insulation class	B				
	Supply cable	1.5 metre				
Signal Input	Voltage in level sensor input [VDC]	5				
	Voltage in pulse input [VDC]	5				
	Minimum pulse-repetition period [ms]	3.3				
	Impedance in analog 0/4-20 mA input [Ω]	250				
	Maximum loop resistance in pulse signal circuit [Ω]	350				
	Maximum loop resistance in level signal circuit [Ω]	350				
Signal Output	Maximum load of alarm relay output, at ohmic load [A]	2				
	Maximum voltage, alarm relay output [V]	42				
Sound Pressure Level	The sound pressure level of the pump is lower than [dB(A)]	70				
Approvals		DME 60-150 CE, cCSAus, PSE, GHOST DME 375-940: CE, cCSAus, GHOST				

★¹ Maximum suction lift: 1 metre.

DMX - DMH Product Identification

Type key

Example:	DMX	115	- 3	B	PVC	/V	/G	-X	-H	1	A7	A7	B
Type Range													
DMX													
Maximum Flow [l/h]													
Maximum Pressure [bar]													
Control Variant													
B	Standard - manual control												
AR	Analog/pulse control (Etron Profi)												
AT0	Prepared for servomotor												
AT3	Servomotor, 1 x 230 V, 50/60 Hz supply, 4-20 mA control												
AT5	Servomotor, 1 x 115 V, 50/60 Hz supply, 4-20 mA control												
AT6	Servomotor, 1 x 230 V, 50/60 Hz supply, 4-20 mA control, EEx d II BT 4												
AT7	Servomotor, 1 x 115 V, 50/60 Hz supply, 4-20 mA control, EEx d II BT 4												
AT8	Servomotor, 1x230V 50/60Hz supply, 1K Ω potentiometer control												
AT9	Servomotor, 1x115V 50/60Hz supply, 1K Ω potentiometer control												
Dosing Head Variant													
PP	Polypropylene												
PV	PVDF (polyvinylidene fluoride)												
PVC	Polyvinyl chloride												
SS	Stainless steel, 316												
PV-R	PVDF + integrated relief valve												
PVC-R	PVC + integrated relief valve												
PP-L	PP + integrated diaphragm leakage detection												
PV-L	PVDF + integrated diaphragm leakage detection												
PVC-L	PVC + integrated diaphragm leakage detection												
SS-L	SS + integrated diaphragm leakage detection												
PV-RL	PVDF + integrated relief valve and diaphragm leakage detection												
PVC-RL	PVC + integrated relief valve and diaphragm leakage detection												
Gasket Material													
E	EPDM (ethylene propylene diene monomer)												
V	FKM (fluorocarbon)												
T	PTFE (polytetrafluoroethylene, e.g. Teflon [®])												
Valve Ball Material													
C	Ceramic												
G	Glass												
T	PTFE (polytetrafluoroethylene, e.g. Teflon [®])												
SS	Stainless steel, 316												
Control Panel Position													
X	No control panel												
S	Side-mounted												
W	Wall-mounted												
Motor Variant													
E0	PTC motor for frequency control												
E1	Motor type EEx de C T3, 3 x 400 V, 50 Hz (only DMX-B or DMX-AT)												
E2	Motor type EEx de C T4, 3 x 400 V, 50 Hz (only DMX-B or DMX-AT)												
Mains Plug													
X	No plug												
F	EU (Schuko)												
B	USA, Canada												
I	Australia, New Zealand, Taiwan												
E	Switzerland												
Connection, Suction/Discharge													
4	Tube 6/9 mm												
6	Tube 9/12 mm												
B9	Tube 19/27 mm, PVC												
Q	Tube 19/27 mm and 25/34 mm												
S	Tube 3/8" / 1/2"												
A	Threaded Rp 1/4"												
A1	Threaded Rp 3/4"												
A2	Threaded Rp 1 1/4"												
V	Threaded NPT 1/4"												
A9	Threaded NPT 1/2", male												
A3	Threaded NPT 3/4"												
A7	Threaded NPT 3/4", male												
A4	Threaded NPT 1 1/4"												
A8	Threaded NPT 1 1/4", male												
K	Cementing d. 40 mm												
B1	Tube 6/12 mm/cementing d. 12 mm												
B2	Tube 13/20 mm/cementing d. 25 mm												
B3	Welding d. 16 mm												
B4	Welding d. 25 mm												
B5	Welding d. 40 mm												
Valve Type													
1	Standard												
2	Spring-loaded 1.45 psi inlet opening pressure 1.45 psi discharge opening pressure												
3	Spring-loaded, 0.7 psi inlet opening pressure 11.6 psi discharge opening pressure												
4	Spring-loaded, discharge side only												
5	Valve for abrasive liquids												
Supply Voltage													
0	Without motor, IEC flange												
G	1 x 230 V, 50/60 Hz												
H	1 x 120 V, 50/60 Hz												
E	230/400 V, 50/60 Hz or 440/480 V, 60 Hz												
F	Without motor, NEMA flange (US) Nema 42C for DMX 221 Nema 56C for DMX 226												
J	220-240 V / 380-420 V, 50/60Hz												
5	3 x 230/460 V, 60 Hz												

DMX (221) Technical Data

50 Hz			60 Hz			100 Hz *)			V stroke	Head	Motor Capacity [kW]		Connection	DMX Model
[l/h]	[n/min]	[bar]	[l/h]	[n/min]	[bar]	[l/h]	[n/min]	[bar]	[cm ²]	Size	Standard	PTC *)	PVC Hose	
4	29	10	5	35	10	8	58	10	2.2	1	0.09	0.09	6/12	221-4
7	29	10	8	35	10	14	58	10	3.8	2	0.09	0.09	6/12	221-7
8	63	10	10	75	10	16	126	10	2.2	1	0.09	0.09	6/12	221-8
9	29	10	11	35	10	18	58	10	4.9	3	0.09	0.09	6/12	221-9
12	29	10	14	35	10	24	58	10	6.9	4	0.09	0.18	6/12	221-12
14	63	10	17	75	10	28	126	10	3.8	2	0.09	0.09	6/12	221-14
16	120	10	19	144	10	-	-	-	2.2	1	0.09	-	6/12	221-16
17	29	4	20	35	4	34	58	4	10.4	5	0.09	0.18	13/20	221-17
18	63	10	22	75	10	36	126	10	4.9	3	0.09	0.09	6/12	221-18
25	29	3	30	35	3	54	58	3	16.0	6	0.09	0.18	13/20	221-25
26	69	10	31	75	10	52	126	10	6.9	4	0.09	0.18	6/12	221-26
27	120	10	32	144	10	-	-	-	3.8	2	0.09	-	6/12	221-27
35	120	10	42	144	10	-	-	-	4.9	3	0.09	-	6/12	221-35
39	63	4	47	75	4	78	126	4	10.4	5	0.09	0.18	13/20	221-39
50	120	10	60	144	8	-	-	-	6.9	4	0.09	-	6/12	221-50
60	63	3	72	75	3	120	126	3	16.0	6	0.09	0.18	13/20	221-60
75	120	4	90	144	3.5	-	-	-	10.4	5	0.09	-	13/20	221-75
115	120	3	138	144	2.5	-	-	-	16.0	6	0.09	-	13/20	221-115

Accuracy	Dosing flow variation < ± 1.5%, linearity < ± 4%
Flow Rate Setting	By manual stroke length adjustment in a 1:1 ratio or by electronic stroke adjustment or motor frequency control
Suction Height	Up to 4 m water column, according to the head size
Materials	Enclosure: aluminium; dosing diaphragm: NBR, PTFE- coated; dosing head and valves: please see the respective table
Weight	8 kg to 13 kg
Motor	Eg: 3 phase motor 220-240 V/380-420 V (50-60 Hz), 440-480 V (60 Hz), IP 65/F; 90 W for other motors please see the respective table
Connections	Dosing head sizes 1 to 4: PVC hose 6/12: PVC pipe 12x1.2; PP pipe (DN10); PVDF pipe 16x2; stainless steel pipe R 1/4"
	Dosing head sizes 5 and 6: PVC hose 13/20; PVC pipe 25x1.9; PP pipe 25x1.9; PVDF pipe 25x1.9; stainless steel pipe R 3/4"

DMX (226) Technical Data

50 Hz				60 Hz				100 Hz 2)			V stroke	Head Size	Connection PVC	DMX Model	
[l/h] 1)	[n/min]	pmax [bar]		[l/h] 1)	[n/min]	pmax [bar]		[l/h] 1)	[n/min]	pmax [bar]				Simplex Pump	Duplex Pump
		3 AC	1 AC 3)			3 AC	1 AC 3)								
Motor 0.37 kW															
67	57	10	10.0	134	114	10	18.5	1	Hose 13/20	226-67L	226-67L/2	18.5	Hose 13/20	226-67L	226-67L/2
132	120	10	10.0	-	-	-	-			226-132L	226-132L/2			226-132L	226-132L/2
190	175	10	8.0	-	-	-	-			226-190L	226-190L/2			226-190L	226-190L/2
95	57	8	8.0	190	114	8	27.8	2	Hose 13/20	226-95L	226-95L	27.8	Hose 13/20	226-95L	226-95L
199	120	8	8.0	-	-	-	-			226-199L	226-199L/2			226-199L	226-199L/2
280	175	8	6.0	-	-	-	-			226-280L	226-280L/2			226-280L	226-280L/2
152	57	6	6.0	304	114	6	44.6	3	Hose 19/27	226-152L	226-152L/2	44.6	Hose 19/27	226-152L	226-152L/2
321	120	6	4.0	-	-	-	-			226-321L	226-321L/2			226-321L	226-321L/2
460	175	6	3.5	-	-	-	-			226-460L	226-460L/2			226-460L	226-460L/2
249	57	3	3.0	498	114	3	73.0	4	Pipe 32/40	226-249L	226-249L/2	73.0	Pipe 32/40	226-249L	226-249L/2
315	72	3	3.0	630	114	3	-			226-315L	226-315L/2			226-315L	226-315L/2
525	120	3	3.0	-	-	-	-			226-525L	226-525L/2			226-525L	226-525L/2
765	175	3	-	-	-	-	-			226-800L	226-800L/2			226-800L	226-800L/2

1) Remember to add the litre capacities of duplex pumps (2 dosing heads)!

2) Only with motor frequency control

3) Option: 1 AC motor for Etron Profi

DMH Technical Data**Performance Data DMH 251-257**

Pump	Model	Stroke Volume [ml]	Max. Press. ¹⁾ [bar]	50 Hz		60 Hz		100 Hz		Motor Power	
				Max. Flow ²⁾ [l/h]	Stroke Frequency [n/min]	Max. Flow ²⁾ [l/h]	Stroke Frequency [n/min]	Max. Flow ²⁾ [l/h]	Stroke Frequency [n/min]	Standard [kW]	PTC ³⁾ [kW]
DMH 2.2-25	251	3.5	25	2.2	14	2.6	17	4.4	29	0.09	0.18
DMH 2.3-16	251	3.5	16	2.3	14	2.8	17	4.5	29	0.09	0.18
DMH 2.4-10	251	3.5	10	2.4	14	2.9	17	5	29	0.09	0.09
DMH 4.5-25	251	3.5	25	4.5	29	5.4	35	9	58	0.09	0.18
DMH 4.9-1	251	3.5	16	4.9	29	5.9	35	9.8	58	0.09	0.09
DMH 5-10	251	3.5	10	5	29	6	35	10	58	0.09	0.09
DMH 10-16	252	6.4	16	10	29	12	35	20	58	0.18	0.18
DMH 11-10	252	6.4	10	11	29	13	35	22	58	0.09	0.18
DMH 11-25	251	3.5	25	11	63	13	75	22	126	0.09	0.18
DMH 12-16	251	3.5	16	12	63	14	75	24	126	0.09	0.18
DMH 13-10	251	3.5	10	13	63	16	75	25	126	0.09	0.09
DMH 17-25	251	3.5	25	17	96	20	115	-	-	0.09	-
DMH 18-16	251	3.5	16	18	96	22	115	-	-	0.09	-
DMH 19-10	251	3.5	10	19	96	23	115	-	-	0.09	-
DMH 21-10	253	11.3	10	21	29	25	35	46	58	0.18	0.18
DMH 21-25	251	3.5	25	21	120	-	-	-	-	0.09	-
DMH 23-16	251	3.5	16	23	120	-	-	-	-	0.09	-
DMH 23-16	252	6.4	16	23	63	27	75	46	126	0.09	0.18
DMH 24-10	251	3.5	10	24	120	-	-	-	-	0.09	-
DMH 24-10	252	6.4	10	24	63	29	75	48	126	0.09	0.18
DMH 36-16	252	6.4	16	36	96	43	115	-	-	0.09	-
DMH 37-10	252	6.4	10	37	96	44	115	-	-	0.09	-
DMH 43-10	253	11.3	10	43	63	52	75	87	126	0.18	0.18
DMH 45-16	252	6.4	16	45	120	-	-	-	-	0.18	-
DMH 46-10	252	6.4	10	46	120	-	-	-	-	0.09	-
DMH 50-10	254	31.6	10	50	26	60	31	101	52	0.55	0.55
DMH 54-16	252	6.4	16	54	144	-	-	-	-	0.18	-
DMH 67-10	253	11.3	10	67	96	78	115	-	-	0.18	-
DMH 83-10	253	11.3	10	83	120	99	144	-	-	0.18	-
DMH 97-16	254	31.6	16	97	54	116	64	193	108	0.55	0.55
DMH 100-10	253	11.3	10	100	144	-	-	-	-	0.18	-
DMH 102-10	254	31.6	10	102	54	122	65	203	108	0.55	0.55
DMH 136-16	254	31.6	16	136	75	163	90	271	150	0.55	0.55
DMH 143-10	254	31.6	10	143	75	172	90	286	150	0.55	0.55
DMH 166-16	254	31.6	16	166	92	200	110	-	-	0.55	-
DMH 175-10	254	31.6	10	175	92	210	110	-	-	0.55	-
DMH 194-10	255	60	10	194	54	233	65	387	108	0.55	0.55
DMH 202-16	254	31.6	16	202	192	242	134	-	-	0.55	-
DMH 213-10	254	31.6	10	213	112	255	134	-	-	0.55	-
DMH 220-10 ⁴⁾	257	131	10	220	28	264	34	440	56	1.1 (1.5)	1.5 (2.2)
DMH 270-10	255	60	10	270	75	324	90	540	150	0.55	0.75
DMH 272-16 ⁴⁾	257	78.2	16	272	56	326	67	544	112	1.1 (1.5)	1.5 (2.2)
DMH 276-16	254	31.6	16	276	153	-	-	-	-	0.55	-
DMH 291-10	254	31.6	10	291	153	-	-	-	-	0.55	-
DMH 332-10	255	60	10	332	92	398	110	-	-	0.55	-
DMH 340-16 ⁴⁾	257	78.2	16	340	73	408	88	680	146	1.1 (1.5)	1.5 (2.2)
DMH 403-10	255	60	10	403	112	484	134	-	-	0.55	-
DMH 440-10	257	131	10	440	56	528	67	880	112	1.1	1.5
DMH-450-16 ⁴⁾	257	78.2	16	450	98	540	118	-	-	1.1 (1.5)	-
DMH 520-16 ⁴⁾	257	78.2	16	520	112	624	134	-	-	1.1 (1.5)	-
DMH 550-10	255	60	10	550	153	-	-	-	-	0.55	-
DMH 575-10	257	131	10	575	73	690	88	1150	146	1.1	1.5
DMH 680-16 ⁴⁾	257	78.2	16	680	146	816	175	-	-	1.1 (1.5)	-
DMH 750-4	257	171	4	750	73	900	88	1500	146	1.1	1.5
DMH 770-10	257	131	10	770	98	924	118	-	-	1.1	-
DMH 880-10	257	131	10	880	112	1056	134	-	-	1.1	-
DMH 1150-10 ⁴⁾	257	131	10	1150	146	-	-	-	-	1.1 (1.5)	-
DMH 1500-4	257	171	4	1500	146	-	-	-	-	1.1	-

1) Maximum counterpressure

2) Maximum flow is measured at maximum counterpressure. Max. flow is per dosing head (double-head pumps have double the flow rate)

3) Motor for frequency control (100 Hz)

4) Values in brackets apply to double-head pumps

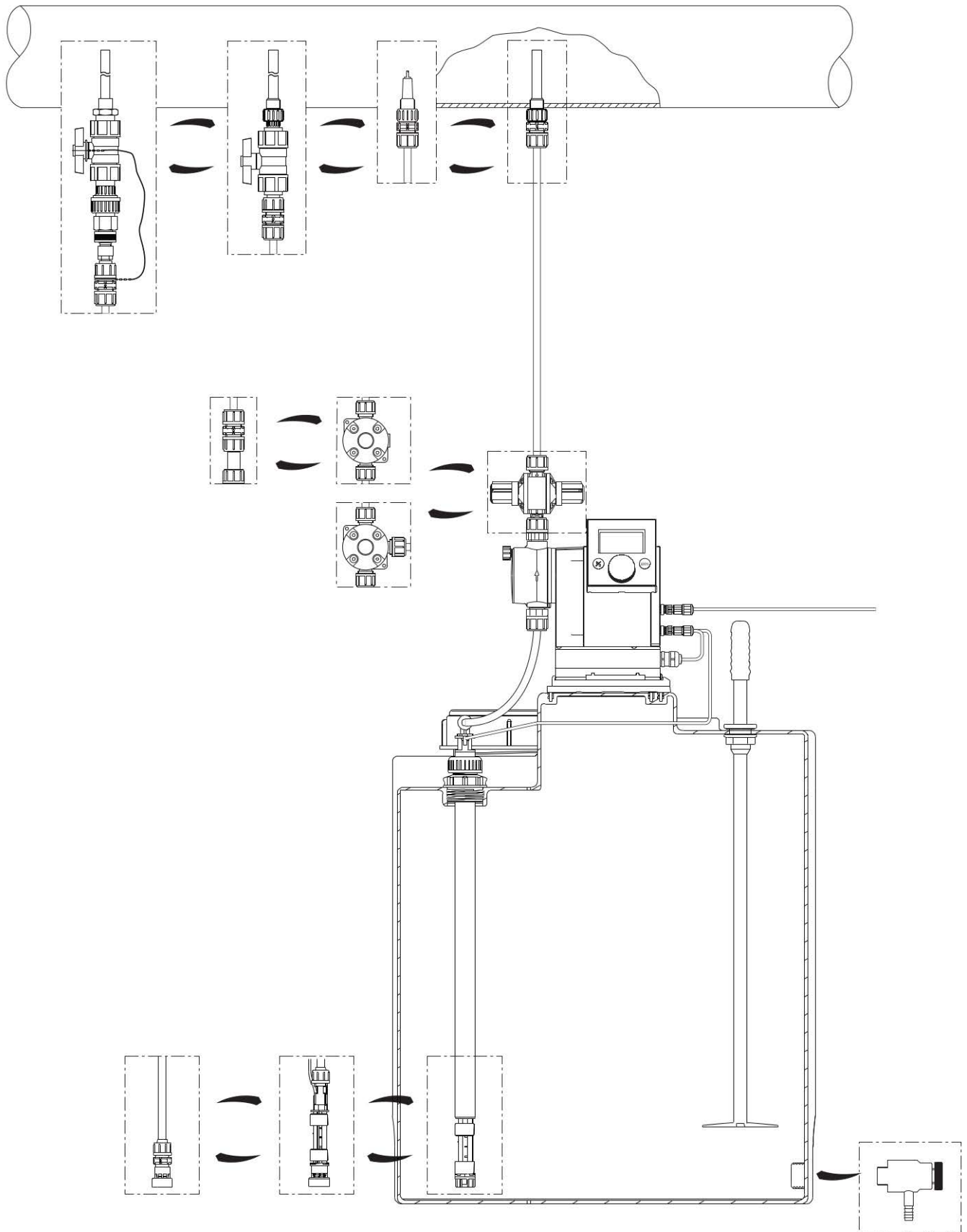
DOSING STATION Product Identification

Type Key

Example:	DSA	2	100	B2	1	L02	P23	CT2	12	DDA 7.5-16 F
Type Range DSA DSB DSU DSW										Pump Model DDA -F = FCM DDI-F = AF DDA/DDI-A = AR DDE-PR
Style 1 Suit 1 pump 2 Duty/Standby pumps										Signal Cables 01 1 x Input 11 2 x Input 02 1 x Input & Output 12 2 x Input & Output
Tank X No tank 100 100L 200 200L 300 300L 500 500L										Cable Terminal Box CT1 1 Pump Terminal box CT2 2 pump Terminal box DC01 2 pump change-over
Bund X No bund B1 Econbund (DSB) B2 For 200 & 300L B6 500L										Pressure ** P1 MFV P11 2 x MFV P12 1 x MFV Duty/Standby Manifold P01 PV P02 2 x PV P2 1 x PLV, 2 x PRV P22 2 x PLV, 2 x PRV P23 1 x PLV, 2 x PRV Duty/Standby Manifold P24 1 x PLV, 0 x PRV Duty/Standby Manifold
Material (Dosing Accessories) 1 PVC/PE/T 2 PVDF/T										
Suction * L00 Flexi foot valve, no- level switch L02 Flexi foot valve 2- level switch L03 2 x Flexi foot valve, no- level switch L04 2 x Flexi foot valve 2- level switch L20 Manifold 1 x pump DSU L22 Manifold 1 x Pump & 2-level switch L23 Manifold 2 x Pump DSU L24 Manifold 2 x Pump & 2-level switch										 * Suction Manifold includes calibration cylinder filter and drain valve. ** Pressure includes Std. injection valve and delivery tubing.

Dosing System Schematic

Grundfos offer a comprehensive range of accessories covering every need for dosing with Grundfos pumps.



DID Type Key

DID-3 BF3 - FCL2 / TCL2 / PH = DID3 BF3-FCL2/TCL2/PH

Controller Variant

DID-1	1 parameter + temperature 100 - 250 VAC 50 - 60 Hz
DID-3	3 parameter + temperature 100 - 250 VAC 50 - 60 Hz

Installation Variant

BF1	Bypass flow cell, 1 sensor
BF3	Bypass flow cell, 3 sensors
TI1	Tank immersion clean water, 1 sensor
TI2	Tank immersion clean water, 2 sensors

Parameters / Sensors

FCL2	Free chlorine, 0 - 2 ppm
FCL20	Free chlorine, 0 - 20 ppm
TCL2	Total chlorine, 0 - 2 ppm
TCL20	Total chlorine, 0 - 20 ppm
CDI2	Chlorine Dioxide, 0 - 2 ppm
CDI20	Chlorine Dioxide, 0 - 20 ppm
HP2	Hydrogen Peroxide, 0 - 200 ppm
HP20	Hydrogen Peroxide, 0 - 2000 ppm
PA2	Peracetic acid, 0 - 200 ppm
PA20	Peracetic acid, 0 - 2000 ppm
PH	pH, 0 - 14 pH up to 10 Bar and 90° C
ORP	ORP, -200 mV +2000 mV up to 10 Bar and 90° C
CND	Conductivity, 1 - 500000 µS/cm (2 - 42 PSU), up to 5,8 Bar and 60° C

Notes:

Disinfectant parameters (FCL,TCL,CDI,HP or PA) are only possible with BF1 or BF3.

Installation variants TI and IL are only possible for parameters PH, ORP or CND.

BF1 and BF3 systems include 0,75m sensor cables.

TC and IL systems include 7, 5m sensor cable.

Mains cable is generally not included, please select and order from accessories list.

All sensors include temperature measurement.

BF1 and BF3 include flow detection.

DID CU382-1 & CU382-3 Technical Data

Data		CU 382-1	CU 382-3
General data	Number of sensor connectors (Buccaneer 400 series)	1	3
	Number of analog inputs (4-2000 mA)		1
	Number of digital inputs		2
	Number of analog outputs (4-20 mA)		3
	Number of digital outputs NO relays		2
	Number of digital outputs NO/NC relays (alarm relays)		1
	Number of USB ports (host)		1
	Number of RS485 ports (Modbus slave)		1
	Number of M20 cable gland entries (mains)		1
	Number of M16 cable gland entries		1
	Number of M12 cable gland entries		4 ¹⁾
	Memory (industrial grade SLC)	[MB]	512
	Ambient temperature	[°C]	-20 to +45
	Humidity (non condensing)	[%]	5 to 90
Electrical data ²⁾	Voltage	[V]	100-240
	Frequency	[Hz]	50-60
	Power consumption	[W]	33
	Max. inrush current	[A]	< 30
	Enclosure class		IP65
Signal input, analog 4-20 mA	Input resistance	[Ohm]	100
	Galvanic isolation (to system ground/earth)	[kV]	1
	Resolution	[bit]	12
Signal input, digital	Standard setup (for connection with mechanical relay/switch)		
	• Max. input frequency	[Hz]	100
	• Low input voltage	[V]	< 7
	• High input voltage	[V]	> 8
	• Input resistance	[Ohm]	> 1000
	Optional setup (for connection with external voltage output)		
	• Max. input frequency	[Hz]	100
	• Low input	[Ohm]	< 100
	• High input	[Ohm]	> 2000
	• Galvanic isolation (to system ground/earth)	[kV]	1
Signal output, analog 4-20 mA	Maximum load resistance	[Ohm]	500
	Galvanic isolation (to system ground/earth)	[kV]	1
	Resolution	[bit]	12
Signal output, digital with relays ³⁾	Maximum working voltage	[VAC]	250
	Maximum switchable load	[A]	6
	Maximum load	[VA]	600
Weight		[kg]	1.3
Approvals		CE, CSA, cTUVus, (RCM)	

¹⁾ One of the cable glands is used for the flow switch (DID with bypass flow cell)

²⁾ Remark: a circuit breaker must be installed

³⁾ Remark: depending on the load, additional snubber circuits might be required

Sensors for disinfectants

			Chlori::lyser				Chlodi::lyser		Hyper::lyser		Peroxy::lyser	
			Free chlorine		Total chlorine		Chlorine dioxide		Hydrogen peroxide		Peracetic acid	
General data	Measuring range	ppm [mg/l]	0-2	0-20	0-2	0-20	0-2	0-20	0-200	0-2000	0-200	0-2000
	Accuracy	[%]	<1 ¹	<1 ²	<1 ¹	<1 ²	<1 ¹	<1 ²	<2 ³	<0.5 ⁴	<2 ³	<0.5 ⁴
	Resolution	ppm [mg/l]	0.001	0.01	0.001	0.01	0.001	0.01	0.1	1	0.1	1
	Measuring principle	-	Amperometric, 3 electrodes, membrane-covered				Amperometric, 2 electrodes, membrane-covered					
	Temperature compensation	-	yes		yes		yes		yes		yes	
	pH compensation	-	yes		yes		-		-		-	
	Response time (T90)	[minute]	2		2		1		8		5 at 10 °C 1.5 at 50 °C	
	Run-in time (during startup, after power-off)	[hour]	2		2		1		3		3	
Ambient conditions	Operating temperature (liquid temperature)	[°C]	5-45		5-45		5-50		5-45		5-45	
	Max. pressure (on outlet, without pressure peaks or fluctuation)	[bar]	0.5		0.5		1		1		1	
	Recommended flow (DID with flow cell)	[l/h]	30		30		30		30		30-100	
	Recommended flow speed (DID for tank immersion)	[m/s]	0.015-0.06		0.015-0.06		0.015-0.06		0.015-0.06		0.015-0.06	
	pH operating range	[pH]	4-9		4-12		2-11		2-11		1-6	
Cross sensitivities	Influence of pH on reading	-	Up to pH 7: no influence Up to pH 9: 10 % of electrode slope		Between pH 4 and 12: 5 % of electrode slope per pH unit		No influence		No influence		No influence	
	Influence of ClO ₂ : Reading instead of parameter	[%]	75		75		-		n/A		100	
	Influence of Cl ₂ : Reading instead of parameter	[%]	-		-		0		Must not be present		0	
	Influence of O ₃ : Reading instead of parameter	[%]	80		130		2500		Must not be present		2500	
	Influence of other substances	-	Combined chlorine can increase reading		-		-		PES or PAA must not be present. Sulfide and phenole poison or destroy the membrane system.		No influence of H ₂ O ₂	
Material and design	Enclosure class	-	IP67		IP67		IP67		IP67		IP67	
	Housing materials	-	PVC-U, PEEK SS 1.4571		PVC-U, PEEK SS 1.4571		PVC-U SS 1.4571		PVC-U SS 1.4571		PVC-U SS 1.4571	
Storage data	Storage temperature of sensor	[°C]	0-45									
	Storage temperature of electrolyte	[°C]	10-35									
	Storage conditions	-	dry, without electrolyte, with clean membrane cap									
	Max. storage time of electrolyte	years	1-2 (check expiry date on package)									
Approvals		-	CE (EN 61326-1:2013)									

¹ at 0.4 ppm and at 1.6 ppm

² at 1.5 ppm

³ at 40 ppm and at 160 ppm

⁴ at 40 ppm and <2 % at 1600 ppm

Sensors for pH, ORP and conductivity

			pH::lyser pH	Redox::lyser ORP	Conduc::lyser Conductivity
General data	Measuring principle	-	Potentiometric, with combined non-porous reference electrode		4-electrode, direct contact
	Measuring range of main parameter	-	pH 2-12	-2000 to +2000 mV	0-500000 µS/cm
	Measuring range of temperature	[°C]	0-70	0-70	0-70
	Temperature compensation	-	yes, with PT100 (class B)	no	yes
	Resolution of main parameter	-	pH 0.01	1 mV	1 µS/cm or 0.01 µS/cm
	Resolution of temperature	[°C]	0.1	0.1	0.1
	Accuracy	-	± 0.1 pH	± 10 mV in standard solution	± 0.1 % of current reading in standard solution
	Response time (T90)	[s]	30	30	60
	Run-in time (during startup)	[hour]	< 1		
Ambient conditions	Operating temperature	[°C]	0-70		
	Operating pressure range	[bar]	0-10		
	Recommended range flow speed (submersed installation)	[m/s]	0.01-3		
Material and design	Enclosure class (sensors with plug)	-	IP67		
	Enclosure class (sensors with cable)	-	IP68		
	Housing materials	-	Stainless steel 1.4571, POM-C		
	Sensor materials	-	-	-	Stainless steel 1.4435, PEEK, EPDM
Storage data	Storage temperature of sensor	[°C]	0-90		0-60
	Storage time	-	Approx. one year with filled protective cap (check expiry date on package)		No limitation
Approvals	-	CE (EN 61326-1:2013)			

OCD Product Identification

Type key

Example: Oxiperm Pro OCD-162-30-D/G1

Oxiperm Pro OCD-162		-30	-D	/G	1
Max. capacity					
5	5 g/h				
10	10 g/h				
30	30 g/h				
60	60 g/h				
Chlorine dioxide dosing pump					
D	integrated mechanical dosing pump DMX				
P	integrated digital dosing pump DDI*				
S	integrated SMART Digital dosing pump DDA*				
N	without integrated dosing pump				
Supply voltage					
G	OCD-162-5 and OCD-162-10: 230 V, 50/60 Hz OCD-162-30 and OCD-162-60: 230 V, 50 Hz				
H	OCD-162-5 and OCD-162-10: 115 V, 50/60 Hz OCD-162-30 and OCD-162-60: 115 V, 60 Hz				
Suction lance					
	for 30-litre chemical container (length of suction hose 1.3 m)				
1	for 60-litre chemical container (length of suction hose 3.0 m)				
2	for 200-litre / 1000-litre chemical container (length of suction hose 6.0 m)				
3	for 55-gallon chemical container (length of suction hose 3.0 m)				

* Note: It is recommended to use a digital dosing pump for direct dosing of the product solution.

Pumped liquids

The resistance table below is intended as a general guide for material resistance (at room temperature), and does not replace testing of the chemicals and pump materials under specific working conditions. The data shown are based on information from various sources available, but many factors (purity, temperature, abrasive particles, etc) may affect the chemical resistance of a given material.

Pumped Liquid (20 °C)			Material								
			Dosing Head				Gasket			Ball	Acc.
Description	Chemical Formula	Concentration %	PP	PVDF	SS 1.4401	PVC	FKM	EPDM	PTFE	Ceramic	PE
Acetic acid	CH ₃ COOH	25	●	●	●	●	—	●	●	●	●
		60	●	●	●	●	—	●	●	●	●
		85	●	●	○	—	—	—	●	●	—
Aluminium chloride	AlCl ₃	40	●	●	—	●	●	●	●	●	●
Aluminium sulphate	Al ₂ (SO ₄) ₃	60	●	●	●	●	●	●	●	●	●
Ammonia, aqueous	NH ₄ OH	28	●	●	●	●	—	●	●	●	●
Calcium hydroxide ⓘ ⁷	Ca(OH) ₂		●	●	●	●	●	●	●	●	●
Calcium hypochlorite	Ca(OCl) ₂	20	○	●	—	●	●	●	●	●	●
Chromic acid	H ₂ CrO ₄	10	●	●	●	●	●	●	●	●	●
		30	—	●	—	●	●	○	●	●	●
		50	—	●	—	●	●	—	●	●	●
Copper sulphate	CuSO ₄	30	●	●	●	●	●	●	●	●	●
Ferric chloride ⓘ ³	FeCl ₃	100	●	●	—	●	●	●	●	●	●
Ferric sulphate ⓘ ³	Fe ₂ (SO ₄) ₃	100	●	●	○	●	●	●	●	●	●
Ferrous chloride	FeCl ₂	100	●	●	—	●	●	●	●	●	●
Ferrous sulphate	FeSO ₄	50	●	●	●	●	●	●	●	●	●
Fluosilicic acid	H ₂ SiF ₆	40	●	●	○	●	—	○	●	●	●
Hydrochloric acid	HCl	< 25	●	●	—	●	●	●	●	●	●
		25-37	●	●	—	●	●	○	●	●	●
Hydrogen peroxide	H ₂ O ₂	30	●	●	●	●	●	●	●	●	●
		30	●	●	●	●	●	●	●	●	●
Nitric acid	HNO ₃	40	○	●	●	●	●	—	●	●	●
		70	—	●	●	—	●	—	●	●	○
Peracetic acid	CH ₃ COOOH	5-15	○	●	○	○	—	○	●	●	○
Potassium hydroxide	KOH	50	●	—	●	●	—	●	●	●	●
Potassium permanganate	KMnO ₄	10	●	●	●	●	○	●	●	●	●
Sodium chlorate	NaClO ₃	30	●	●	●	●	●	●	●	●	●
Sodium chloride	NaCl	30	●	●	—	●	●	●	●	●	●
Sodium chlorite	NaClO ₂	20	●	●	—	○	●	●	●	●	●
Sodium hydroxide	NaOH	30	●	●	●	●	○	●	●	●	●
		50	●	●	●	●	—	●	●	●	●
Sodium hypochlorite	NaOCl	12-15	—	●	—	●	●	●	●	●	●
Sodium sulphide	Na ₂ S	30	●	●	●	●	●	●	●	●	●
Sodium sulphite	Na ₂ SO ₃	20	●	●	●	●	●	●	●	●	●
Sodium thiosulfate	Na ₂ S ₂ O ₃	10	●	●	●	●	●	●	●	●	●
Sulphurous acid	H ₂ SO ₃	6	●	●	●	●	●	●	●	●	●
Sulphuric acid ⓘ ⁴	H ₂ SO ₄	< 80	●	●	—	●	●	○	●	●	●
		80-96	○	●	—	●	●	—	●	●	—
		98	—	●	●	—	○	—	●	●	—

● Resistant

○ ³ Risk of crystallisation.

○ Limited resistance

○ ⁴ Reacts violently with water and generates much heat.
(Pump should be absolutely dry before dosing sulphuric acid.)

— Not resistant

○ ⁷ Once the pump is stopped, calcium hydroxide will sediment rapidly.

Note: Some of the liquids in this table may be toxic, corrosive or hazardous. Please be careful when handling these liquids. For further information, see 'Pumped liquid guide'.

How to Size a Dosing Pump

Formula to: Size a Dosing pump

$$\text{Max. process flow} \frac{\text{m}^3/\text{hr} \times \text{Chemical dose ppm}}{1000} = \text{L/hr} \times \text{Chem.\% factor} = \text{L/hr. (Required pump volume)}$$

Note: Chemical % factor = 100 divided chemical solution strength. E.g. 50% = 2, 20% = 5, 10% = 10, 5% = 20

Formula to: Size a Dosing pump for PULSE CONTACT control

$$\frac{\text{Dose Rate L/hr} \times \text{water meter L/pulse}}{\text{Max. water flow m}^3/\text{hr}} = \text{ml/pulse}$$

Note: Check Pump ml/pulse range is suitable in data book or manual.

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