

Note! Product picture may differ from actual product

06/02/2020

Product No.: 99159383 DDA 60-10 FCM-SS/T/SS-F-31A1A1

The SMART Digital DDA is a compact positive displacement, diaphragm dosing pump with variable-speed drive (PMS motor) and intelligent control electronics with minimum energy consumption. The SMART Digital Dosing series operates at full stroke length to ensure optimum accuracy, priming and suction, even for high-viscosity or degassing liquids. The duration of each discharge stroke varies according to the capacity set, resulting in optimum smooth and continuous discharge flow.

The mounting plate allows quick installation and service. The control cube can be turned easily into front, left or right position. The click wheel and the multi-coloured backlit graphical, plain-text LC display make commissioning and operation intuitive. The control elements are protected by a transparent cover.

The sensor-based FlowControl (FCM) system detects malfunctions directly in the dosing head and displays them in plain text in the alarm menu, e.g. air bubbles, line burst, overpressure. The integrated flow measurement function measures the actual flow and makes additional monitoring and control equipment redundant (accuracy of ± 1 % of set value in case of trouble-free process). The measured flow is displayed and can be integrated in the process control, e.g. SCADA. Furthermore, the AutoFlowAdapt function automatically adjusts the pump speed according to the process conditions to maintain target flow even at e.g. varying backpressure or air bubbles foaming (degassing drive strategy).

The dosing head is composed of:

- Long lifetime and universal, chemically resistant full double PTFE diaphragm.
- Ball valves for highest dosing accuracy.
- Deaeration valve for easy startup.
- Pressure sensor.

Operating modes:

- Manual dosing in ml/h, l/h or gph.
- Pulse control in ml/pulse (incl. memory function).
- Analog control 0/4-20 mA (scalable).
- Pulse-based batch function in ml, I or gal.
- Timer-based batch function (Dosing timer, cycle or week).
- Fieldbus control (GENIbus prepared for Grundfos CIU fieldbus modules).

Other features:

- Auto deaeration during pump standby to avoid breakdowns due to air-locking.
- Two SlowMode steps (anti-cavitation), 50 % (maximum flow: 30 l/h) and 25 % (maximum flow: 15 l/h), e.g. for high-viscosity or degassing liquids.
- Service information display to show when service and which wear-part order number is required.
- Two-step key lock function to protect the pump against unauthorised access.
- Additional display function to provide further information, e.g. the actual mA input signal.
- Counter for total dosed volume (resettable), operating hours, etc.
- Save and load customised settings as well as reload of factory settings.

Signal inputs/outputs:

- Input for pulse, analog 0/4-20mA and external stop.



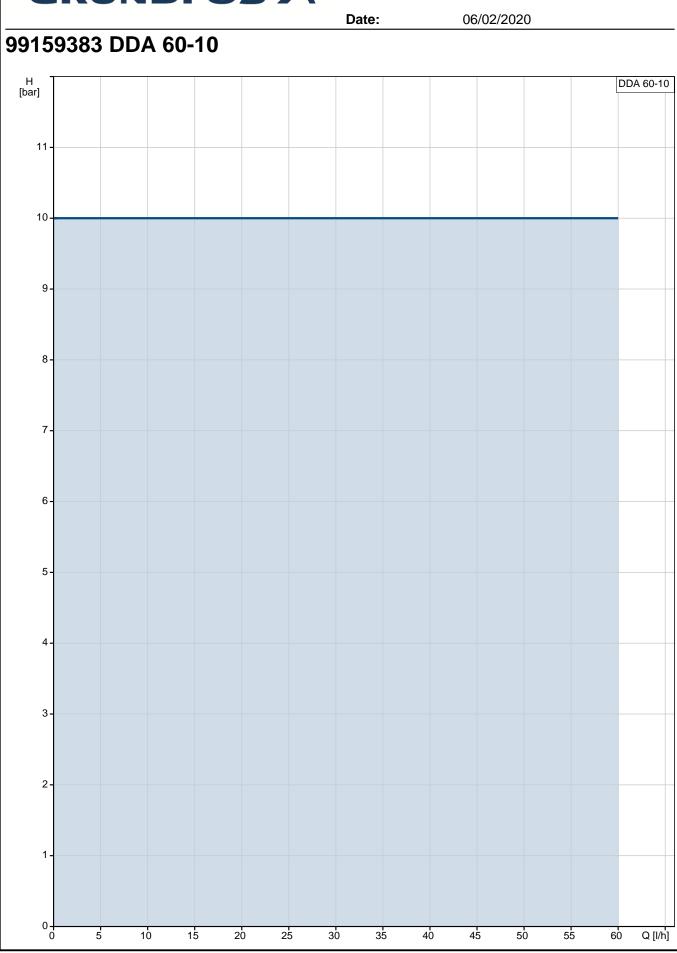
	GRUNDFO	DS X	Phone:	
			Date:	06/02/2020
•	Description			
	dosing, timer etc.) - Output analog 0/4-20mA	relays for maximu		onfigurable, e.g. alarm, stroke signal, pump of the Grundfos CIU fieldbus converter).
	Controls:			
	Control variant:	FCM		
	Level control:	YES		
	Analog input:	0/4-20 MA		
	Pulse control:	YES		
	Ext. Stop input:	YES		
	Analog output:	0/4-20 MA		
	Output relays: Bus communication:	2 YES		
	bus communication.	TEO		
	Liquid:			
	Pumped liquid:	Water		
	Liquid temperature range:	0 50 °C		
	Selected liquid temperature:	20 °C		
	Density:	998.2 kg/m ³		
	Technical:			
	Type key:	DDA 60-10 FCM-	SS/T/SS-F-31A1A	\ 1
	Max. Flow:	60 l/h		
	Max. flow in slow mode 50%:	30 l/h		
	Max. flow in slow mode 25%:	15 l/h		
L	Min flow:	75 ml/h		
L	Turn-down ratio:	1:800		
	Approvals on nameplate:	CE,CSA-US,NSF	61,EAC,RCM	
	Valve type:	Standard		
	Maximum viscosity at 100 %:	100 mPas		
	Maximum viscosity in slow mode Maximum viscosity in slow mode			
	Accuracy of repeatability:		25	
	Materials:			
	Dosing head:	Stainless Steel 1.	4435	
	Valve ball:	Stainless steel		
	Gasket:	PTFE		
	Installation:			
	Range of ambient temperature:	045 °C		
	Maximum operating pressure:	10 bar		
	Installation set:	NO		
	Installation type:	No installation se	t	
	Pump inlet:	Conn. threaded F	Rp 3/4# Code A1	
	Pump outlet:	Conn. threaded F	Rp 3/4# Code A1	
	Max. Suction lift during operatio			
	Max. Suction lift during priming:	1.5 m		
	Electrical data:			
	Maximum power input - P1:	62 W		
	Mains frequency:	50 / 60 Hz		
	Rated voltage:	1 x 100-240 V		
	Enclosure class (IEC 34-5):	IP65 / NEMA 4X		
	Length of cable:	1.5 m		
	Type of cable plug:	EU		



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		Date:	06/02/2020
Description			
Inrush current:	70A at 240V (35A/100	0V) for 2ms	
Others: Net weight: Gross weight: Color: Country of origin: Custom tariff no.:	7 kg 8 kg RED FR 84135040		







		Date:	06/02/2020	
Description	Value	H [bar]		DDA 60-1
General information:				
Product name:	DDA 60-10	11-		
Product No:	99159383	-		
EAN number:	5712607841713	-		
EAN number.	5712607841713	10-		
Dries		-		
Price:	3.936,00 GBP			
Technical:	554.00.10	9-		
Type key:	DDA 60-10 FCM-SS/T/SS-F-31A1A1			
Max. Flow:	60 l/h	8-		
Max. flow in slow mode 50%:	30 l/h	-		
Max. flow in slow mode 25%:	15 l/h			
Min flow:	75 ml/h	7-		
		-		
Turn-down ratio:	1:800	6-		
Approvals on nameplate:	CE,CSA-US,NSF61,EAC,RCM			
Valve type:	Standard			
Maximum viscosity at 100 %:	100 mPas	5-		
Maximum viscosity in slow mode 50 %:	2000 mPas			
Maximum viscosity in slow mode 25 %:	3000 mPas	4 -		
Accuracy of repeatability:	1.5 %			
Materials:		3-		
Dosing head:	Stainless Steel 1.4435	-		
Valve ball:	Stainless steel	-		
Gasket:	PTFE	2-		
	PIFE	-		
Installation:		_		
Range of ambient temperature:	0 45 °C	1-		
Maximum operating pressure:	10 bar			
Installation set:	NO			
Installation type:	No installation set	0	10 15 20 25 30 35	40 45 50 55 Q [l/h
Pump inlet:	Conn. threaded Rp 3/4# Code A1		29	187
Pump outlet:	Conn. threaded Rp 3/4# Code A1			
Max. Suction lift during operation:	3 m			
Max. Suction lift during priming:	1.5 m			
Liquid:	\A/			
Pumped liquid:	Water	183.	5 13 17	2.5
Liquid temperature range:	0 50 °C	140.5		-
Selected liquid temperature:	20 °C		0 364 G 5/4"	
Density:	998.2 kg/m³			─ ₽`` ¶\\
Electrical data:			╶ ╢┙╵║ ╔┇ ╢╴┈╢╢	
Maximum power input - P1:	62 W			a 55
Mains frequency:	50 / 60 Hz	- - -		
Rated voltage:	1 x 100-240 V			
Enclosure class (IEC 34-5):	IP65 / NEMA 4X			
Length of cable:	1.5 m	. 194		I
Type of cable plug:	EU	- He 104		
Inrush current:	70A at 240V (35A/100V) for			
Controls:	2ms			
Control variant:	FCM			
Control panel:	FRONT-MOUNTED			
Level control:	YES			
Analog input:	0/4-20 MA			
Pulse control:	YES			
Ext. Stop input:	YES			



		Date:	06/02/2020
Description	Value		
Analog output:	0/4-20 MA		
Output relays:	2		
Bus communication:	YES		
Others:			
Net weight:	7 kg		
Gross weight:	8 kg		
Color:	RED		
Country of origin:	FR		
Custom tariff no .:	84135040		

