

27/02/2020

Qty. | Description

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DDA 12-10



Note! Product picture may differ from actual product

Product No.: 97722064 DDA 12-10 AR-PV/V/C-F-31U2U2FG

The SMART Digital DDA is a compact positive displacement, diaphragm dosing pump with variable-speed drive (stepper 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 click-stop mounting plate allows installation in three different positions without using any additional accessories. 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 dosing head is composed of:

- Long lifetime and universal, chemically resistant full-PTFE diaphragm.
- Double ball valves for highest dosing accuracy.
- Deaeration valve for easy start-up.

Operation 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 ProfibusDP E-box).

Other features:

- Auto deaeration during pump standby to avoid breakdowns due to air-locking.
- Two SlowMode steps (anti-cavitation), 50 % (maximum flow: 6 l/h) and 25 % (maximum flow: 3 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, external stop.
- Input for low-level and empty-tank signal.
- Two potential-free output relays for max. 30 V AC/DC (configurable, e.g. alarm, stroke signal, pump dosing, timer etc.)
- Output analog 0/4-20mA.
- Fieldbus communication interface (GeniBus, also for additional Profibus DP E-box to retrofit).

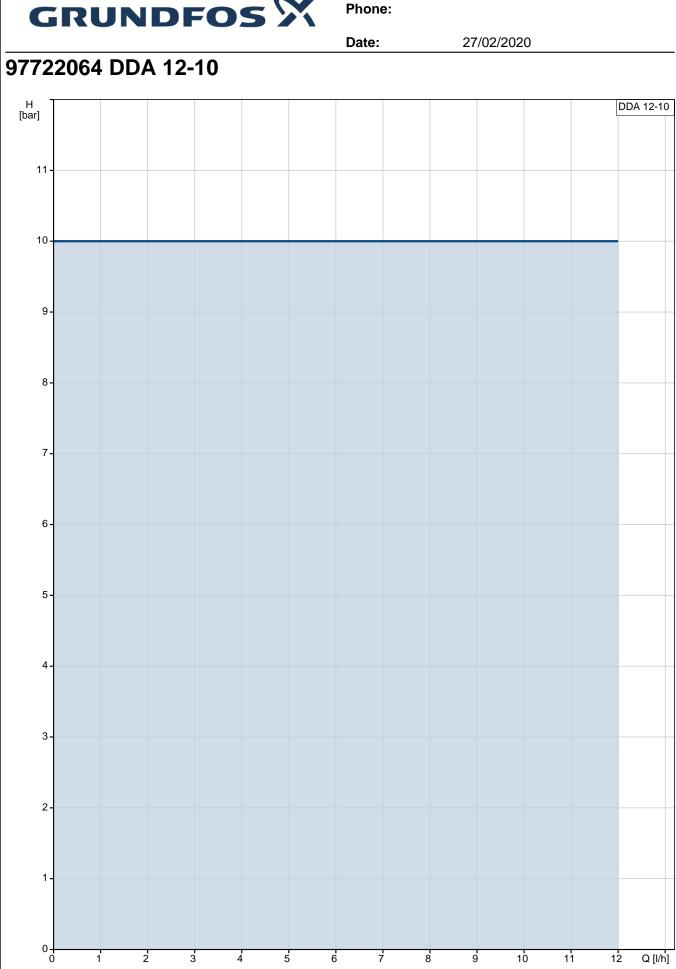
Technical: Type key:

DDA 12-10 AR-PV/V/C-F-31U2U2FG



				27/02/2020					
	Description								
	Max. Flow:	12 l/h							
	Max. flow in slow mode 50%:	6 l/h							
l	Max. flow in slow mode 25%:	3 l/h							
	Min flow:	12.0 ml/h							
	Turn-down ratio:	1:1000							
	Approvals on nameplate:	CE,CSA-US,NSF61,EAC,RC	M						
	Valve type:	Standard							
	Maximum viscosity at 100 %:	300 mPas							
	Maximum viscosity in slow mode								
	Maximum viscosity in slow mode 25 %: 2500 mPas								
	Accuracy of repeatability:	1%							
	recorded of repeatability.	1 /0							
	Materials:								
l	Dosing head:	PVDF (Polyvinylidene fluorio	e)						
	Valve ball:	Ceramic							
	Gasket:	FKM							
	Installation:								
	Range of ambient temperature:								
	Maximum operating pressure:	10 bar							
	Installation set:	NO							
	Installation type:	No installation set							
	Pump inlet:	4/6, 6/9, 6/12, 9/12 mm							
	Pump outlet:	4/6, 6/9, 6/12, 9/12 mm							
	Max. Suction lift during operation								
	Max. Suction lift during priming:	3 m							
	Liquid:								
	Pumped liquid:	Water							
	Liquid temperature range:	-10 45 °C							
l	Selected liquid temperature:	20 °C							
	Density:	998.2 kg/m ³							
	Density.	990.2 Kg/11°							
	Electrical data:								
	Maximum power input - P1:	24 W							
	Mains frequency:	50 / 60 Hz							
	Rated voltage:	1 x 100-240 V							
l	Enclosure class (IEC 34-5):	IP65 / NEMA 4X							
	Length of cable:	1.5 m							
	Type of cable plug:	EU							
	Inrush current:	25A at 230V for 2ms							
	Controlo								
	Controls:								
	Control variant:	AR							
	Level control:	YES							
l	Analog input:	0/4-20 MA							
l	Pulse control:	YES							
l	Ext. Stop input:	YES							
	Analog output:	0/4-20 MA							
	Output relays:	2							
	Bus communication:	YES							
Others:									
1	Net weight:	3 kg							
1	Gross weight:	4 kg							
1	Color:	RED							
	00001.								







		Date:	27/02/	2020	
Description	Value	H [bar]			DDA 12
General information:		-			
Product name:	DDA 12-10	11 -			
Product No:	97722064	-			
EAN number:	5710620363373	10			
	5710620363373	10-			
Technical:		-			
	DDA 12-10	9-			
Type key:	AR-PV/V/C-F-31U2U2FG				
Max. Flow:	12 l/h	-			
Max. flow in slow mode 50%:	6 l/h	8-			
Max. flow in slow mode 25%:	3 l/h	-			
Min flow:	12.0 ml/h				
Turn-down ratio:	1:1000	7-			
Approvals on nameplate:	CE,CSA-US,NSF61,EAC,RCM				
Valve type:	Standard	6-			
Maximum viscosity at 100 %:	300 mPas				
Maximum viscosity in slow mode 50 %:	1300 mPas	5-			
Maximum viscosity in slow mode 25 %:	2500 mPas	4 -			
Accuracy of repeatability:	1 %				
Materials:					
Dosing head:	PVDF (Polyvinylidene fluoride)	3-			
Valve ball:	Ceramic	-			
Gasket:	FKM	-			
Installation:		2-			
Range of ambient temperature:	0 45 °C	-			
Maximum operating pressure:	10 bar	- 1-			
Installation set:	NO	- ']			
Installation type:	No installation set				
Pump inlet:	4/6, 6/9, 6/12, 9/12 mm				
Pump outlet:	4/6, 6/9, 6/12, 9/12 mm	0 1	2 3 4 5	6 7 8 9 1	0 11 Q
Max. Suction lift during operation:	4/0, 0/9, 0/12, 9/12 11111				
max. Suction int during operation.	6 m			280 251 	
Max. Suction lift during priming:	3 m	17.5 110			
Liquid:			1 EA		\subseteq H
Pumped liquid:	Water				
Liquid temperature range:	-10 45 °C				, נו ווי
Selected liquid temperature:	20 °C		3005		
Density:	998.2 kg/m³		0		
Electrical data:	5		382 S		
Maximum power input - P1:	24 W		┹ <mark>╗</mark> │ ╷╨		
Mains frequency:	50 / 60 Hz	4 xØ 6 105		24 161	17
Rated voltage:	1 x 100-240 V	- 16			
	IP65 / NEMA 4X				
Enclosure class (IEC 34-5):					
Length of cable:	1.5 m				
Type of cable plug:	EU				
Inrush current:	25A at 230V for 2ms				
Controls:					
Control variant:	AR				
Control panel:	FRONT-MOUNTED				
Level control:	YES				
Analog input:	0/4-20 MA				
Pulse control:	YES				
Ext. Stop input:	YES				
Analog output:	0/4-20 MA				
Output relays:	2				
Bus communication:	YES				
	0				



DescriptionValueNet weight:3 kgGross weight:4 kgColor:RED



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