

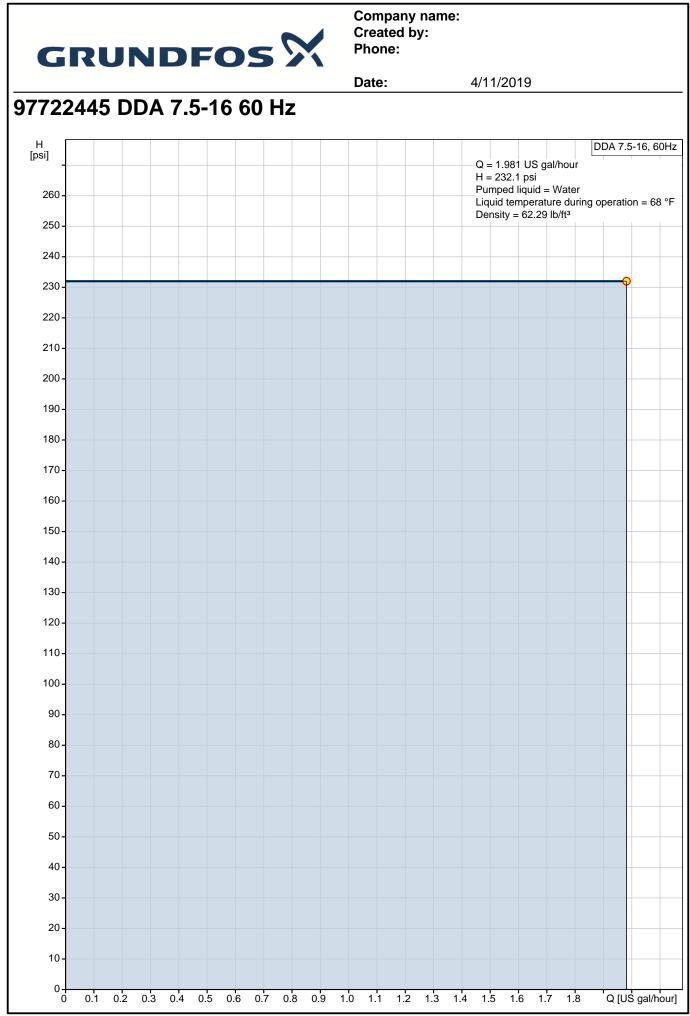
Date: 4/11/2019 Count Description DDA 7.5-16 1 Product photo could vary from the actual product Product No.: 97722445 DDA 7.5-16 FCM-PV/E/C-F-31U7U7 The SMART Digital DDA is a compact positive displacement, diaphragm dosing pump with variable-speed drive (stepper motor) and intelligent control electronics 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 sensor-based FlowControl (FC) 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 (only FCM) measures the actual flow and makes additional monitoring and control equipment redundant (accuracy of \pm 1,5 % 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 (only FCM) 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-PTFE diaphragm. Double ball valves for highest dosing accuracy. Deaeration valve for easy start-up. Pressure sensor. 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: 0.9906 US gal/hour) and 25 % (maximum flow: 0.4966 US gal/hour), 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:



				Date:	4/11/2019
Count	Description				
	 Input for pulse, analog 0/ Input for low-level and er Two potential-free output dosing, timer etc.) 	npty-tar	ık signal.	-	configurable, e.g. alarm, stroke signal, pump
	- Output analog 0/4-20mA		e (GeniBus	also for ad	lditional Profibus DP E-box to retrofit).
		interiae	e (Cembus,		
	Technical:	DD 4 -			
	Type key: Max. Flow:		′.5-16 FCM-F US gal/hour	V/E/C-F-3	310707
	Max. flow in slow mode 50%:		6 US gal/hou	r	
	Max. flow in slow mode 25%:		6 US gal/hou		
	Min flow:	2.5 ml	•		
	Turn-down ratio:	1:3000)		
	Approvals on nameplate:		SA-US,NSF6	1,RCM	
	Valve type:	Stand			
	Maximum viscosity at 100 %: Maximum viscosity in slow mode	50 mF			
	Maximum viscosity in slow mode				
	Accuracy of repeatability:	1 %	2000 mir as	2	
	Materials:				
	Dosing head:		(Polyvinylide	ene fluoride	e)
	Valve ball: Gasket:	Ceram EPDN			
	Gaskel.	EFDIV			
	Installation:				
	Range of ambient temperature:	32 1	13 °F		
	Maximum operating pressure:	232.06	6 psi		
	Installation set:	NO			
	Installation type:		tallation set	0/0 4/0"	
	Pump inlet: Pump outlet:		1/4, 1/4x3/8, 1/4, 1/4x3/8,		
	Max. Suction lift during operatio			3/08/1/2	
	Max. Suction lift during priming:				
	Liquid:				
	Pumped liquid:	Water			
	Liquid temperature range:	141	13 °F		
	Selected liquid temperature:	68 °F			
	Density:	62.29	lb/ft ³		
	Electrical data:				
	Maximum power input - P1:	24 W			
	Main frequency:	60 Hz	0-240 V		
	Rated voltage: Enclosure class (IEC 34-5):		0-240 V NEMA 4X		
	Length of cable:	4.92 ft			
	Type of cable plug:		Canada		
	Inrush current:		230V for 2m	าร	
	Controls:				
	Control variant:	FCM			
	Level control:	YES			
	Analog input: Pulse control:	0/4-20 YES	INA		
	Ext. Stop input:	YES			
	Analog output:	0/4-20	mA		
	Output relays:	2			



C	GRUNDF		Phone:		
			Date:	4/11/2019	
Count	Description				
	Bus communication:	YES			
	Others: Net weight:	6.62 lb			
	Gross weight: COLOR:	8.82 lb RED			
	Custom tariff no.:	8413.50.0050			



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		,H.,					DDA 7.5-1	6, 60Hz
Description	Value	[psi]		Q =	1.981 U	S gal/hour		1
General information:		260 -		H = 1	232.1 ps	i -		
Product name:	DDA 7.5-16	250 -				id = Water rature durin	a operation	= 68 °F
Product No.:	97722445	240 -				.29 lb/ft3	5	
EAN:	5710622725872	230 -						•
Technical:		220 -						
Type key:	DDA 7.5-16 FCM-PV/E/C-F-31U7U7	210 -						
Max. Flow: Max. flow in slow mode 50%:	1.981 US gal/hour	200 -						
	0.9906 US gal/hour	190 -						
Max. flow in slow mode 25%:	0.4966 US gal/hour	180 -						
Min flow:	2.5 ml/h	170 -						
Turn-down ratio:	1:3000	160 -						
Approvals on nameplate:	CE,CSA-US,NSF61,RCM	150 -						
Valve type:	Standard							
Maximum viscosity at 100 %:	50 mPas	140 -						
Maximum viscosity in slow mode	1800 mPas	130 -						
50 %:		120 -						
Maximum viscosity in slow mode 25 %:	2500 mPas	110 -						
Accuracy of repeatability:	1 %	100 -						
Materials:		90 -						
Dosing head:	PVDF (Polyvinylidene fluoride)	80 -						
Valve ball:	Ceramic	70 -						
Gasket:	EPDM	60 -						
Installation:		50 -						
Range of ambient temperature:	32 113 °F							
Maximum operating pressure:	232.06 psi	40 -						
Installation set:	NO	30 -						
		20 -						
Installation type:	No installation set	10 -						
Pump inlet:	0.17x 1/4, 1/4x3/8, 3/8x1/2"	o —						
Pump outlet:	0.17x 1/4, 1/4x3/8, 3/8x1/2"	0	0.2 0.4 0.6	0.8 1.	0 1.2	1.4 1	.6 Q [US g	al/hour
Max. Suction lift during operation:	19.7 ft							
Max. Suction lift during priming:	6.56 ft			•		11.00" 9.88"		٩
Liquid:		0.69 4.3	3		5/8"			
Pumped liquid:	Water]_[+				1
Liquid temperature range:	14 113 °F					-		
Selected liquid temperature:	68 °F		79[] / /				□⊾ \\\	
Density:	62.29 lb/ft ³			7.72"	₽ H			<u>،</u> ا
Electrical data:			00	~ L				
Maximum power input - P1:	24 W		š š				IFL	
Main frequency:	60 Hz			1.83"			═╪┹╤╹╴	\mathcal{I}
Rated voltage:	1 x 100-240 V	4 xØ 0.24 4.13		<u></u>	0.94"	6.34*	9.67	<u> </u>
Enclosure class (IEC 34-5):	IP65 / NEMA 4X	4 xt0 0.24 4.72	2"					
Length of cable:	4.92 ft		6.61"					
Type of cable plug:	USA, Canada							
Inrush current:	25A at 230V for 2ms							
Controls:								
Control variant:	FCM							
	FCM FRONT-MOUNTED							
Control panel:								
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							
Others:								
Net weight:	6.62 lb							
Gross weight:	8.82 lb							

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4/11/2019

DescriptionValueCOLOR:RED

Custom tariff no .:

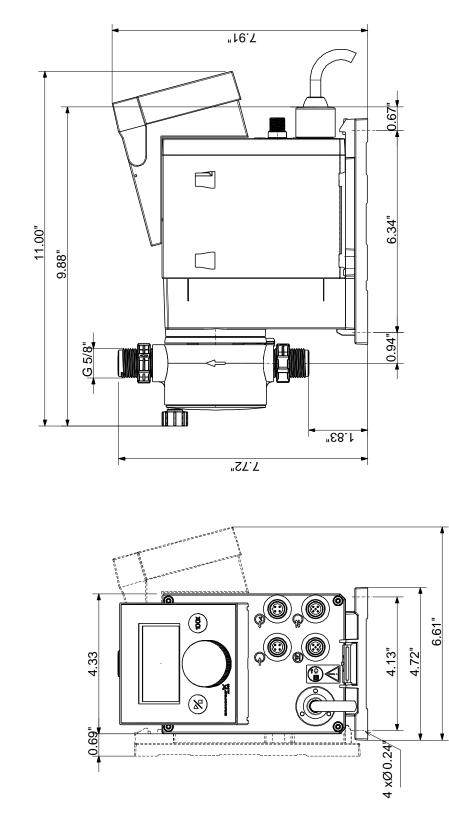
8413.50.0050



Date:

4/11/2019

97722445 DDA 7.5-16 60 Hz



Note! All units are in [in] unless otherwise stated. Disclaimer: This simplified dimensional drawing does not show all details.



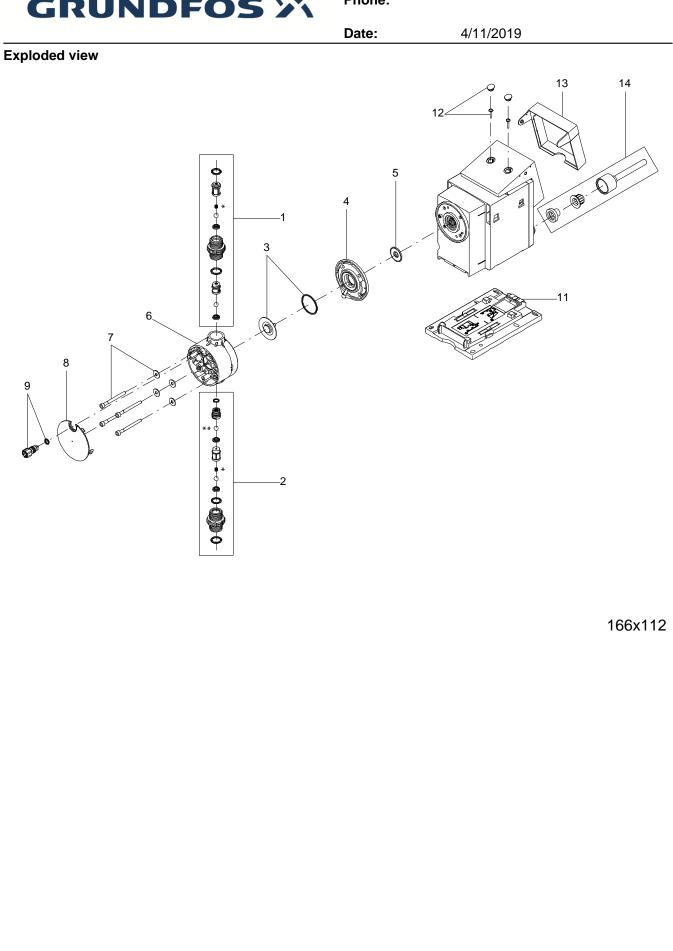
4/11/2019

Order	Data:
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Product name: DDA 7.5-16 Amount: 1 Product No.: 97722445

Total: Price on request







4/11/2019

Parts list DDA 7.5-16, Prod number 97722445 Produced After 1132 (production year and week number)

Position		Annotation	Classification data	Part No.		
- 1	Discharge valve cpl.				1	pcs
	O-ring				1	
	O-ring				1	
	Valve seat				1	
	Ball				2	
	Valve housing				1	
	Ball cage				1	
	Ball cage				1	
2	Suction valve cpl.				1	pcs
	O-ring				1	
	O-ring				1	
	O-ring				1	
	Valve seat				1	
	Valve seat				1	
	Ball				1	
	Ball				1	
	Valve housing				1	
	Ball cage				1	
	Ball cage				1	
3	O-ring		Diameter: 35		1	pcs
			Material type: EPDM			
			Thickness: 2			
3	Diaphragm				1	pcs
4	Pump head flange				1	pcs
5	Diaphragm				1	pcs
6	Pump head				1	pcs
7	Washer				4	pcs
7	Hex socket head cap screw				4	pcs
8	Pump head cover				1	pcs
9	Venting valve				1	pcs
	O-ring				1	
	Spindle				1	
11	Base plate				1	pcs
12	Cover for screw				2	pcs
12	Pan washer head screw				2	pcs
13	Cover for cube				1	pcs
14	Power cable				1	pcs