

Count	Description
1	DDA 17-7  Product photo could vary from the actual product Product No.: 97722638 DDA 17-7 FCM-PVC/E/C-F-31U7U7B 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, l 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: 2.245 US gal/hour) and 25 % (maximum flow: 1.123 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:

Count	Description
	- 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 17-7 FCM-PVC/E/C-F-31U7U7B Max. Flow: 4.491 US gal/hour Max. flow in slow mode 50%: 2.245 US gal/hour Max. flow in slow mode 25%: 1.123 US gal/hour Min flow: 17.0 ml/h Turn-down ratio: 1:1000 Approvals on nameplate: CE, CSA-US, NSF61, RCM Valve type: Standard Maximum viscosity at 100 %: 300 mPas Maximum viscosity in slow mode 50 %: 1300 mPas Maximum viscosity in slow mode 25 %: 2000 mPas Accuracy of repeatability: 1 % Materials: Dosing head: PVC (Polyvinyl chloride) Valve ball: Ceramic Gasket: EPDM Installation: Range of ambient temperature: 32 .. 113 °F Maximum operating pressure: 101.53 psi Installation set: NO Installation type: No installation set Pump inlet: 0.17x 1/4, 1/4x3/8, 3/8x1/2" Pump outlet: 0.17x 1/4, 1/4x3/8, 3/8x1/2" Max. Suction lift during operation: 19.7 ft Max. Suction lift during priming: 9.84 ft Liquid: Pumped liquid: Water Liquid temperature range: 14 .. 113 °F Selected liquid temperature: 68 °F Density: 62.29 lb/ft³ Electrical data: Maximum power input - P1: 24 W Main frequency: 60 Hz Rated voltage: 1 x 100-240 V Enclosure class (IEC 34-5): IP65 / NEMA 4X Length of cable: 4.92 ft Type of cable plug: USA, Canada Inrush current: 25A at 230V for 2ms 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: 2



Company name:

Created by:

Phone:

Date:

4/11/2019

Count	Description
	Bus communication: YES
	Others:
	Net weight: 4.41 lb
	Gross weight: 6.62 lb
	COLOR: RED
	Custom tariff no.: 8413.50.0050



Company name:

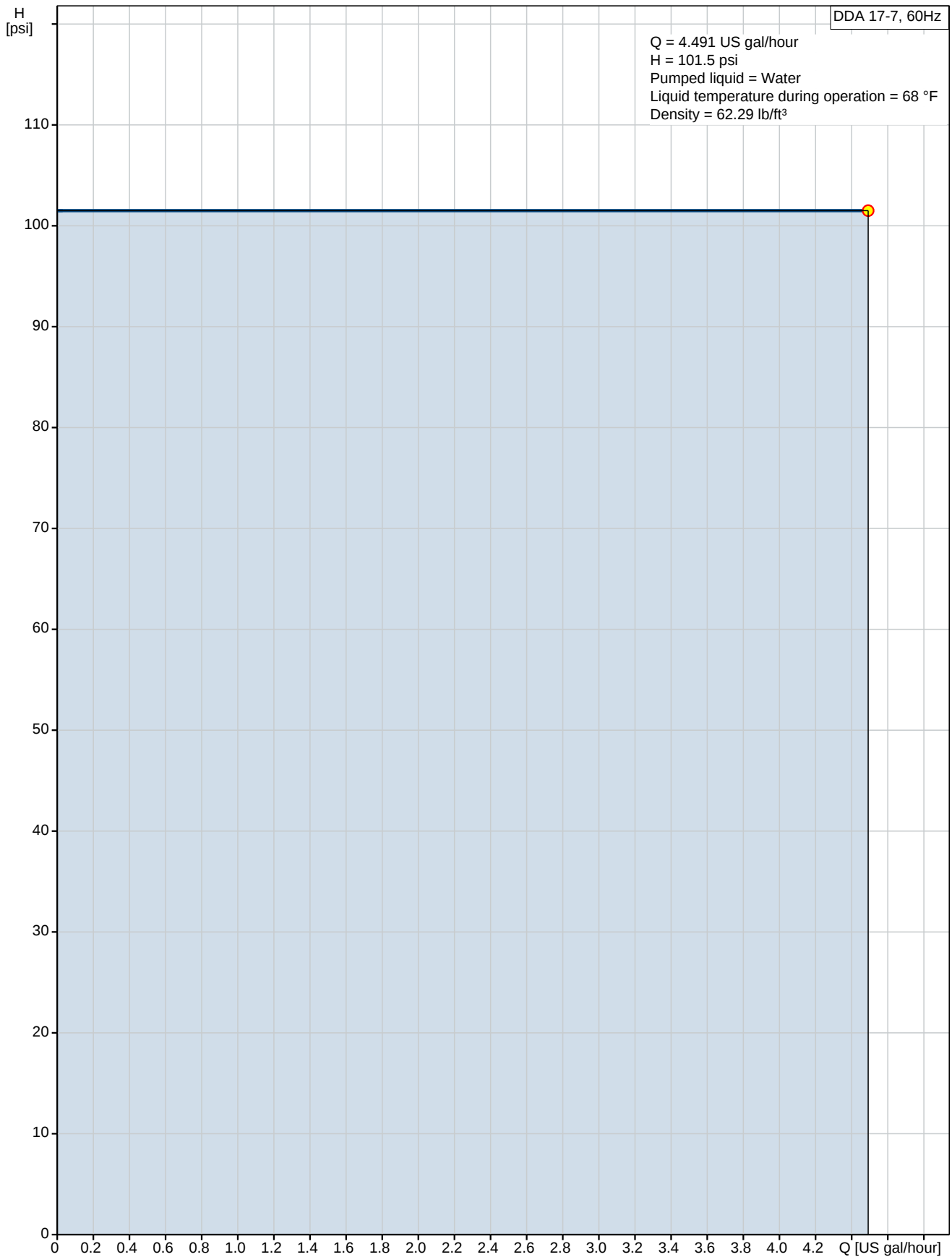
Created by:

Phone:

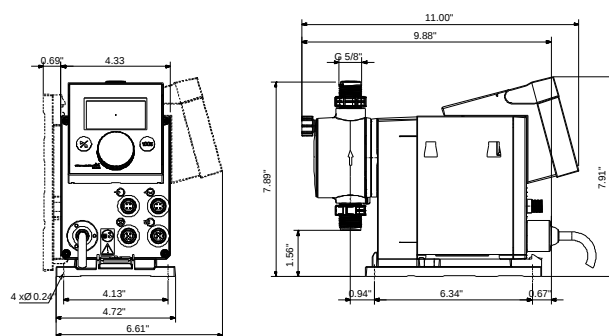
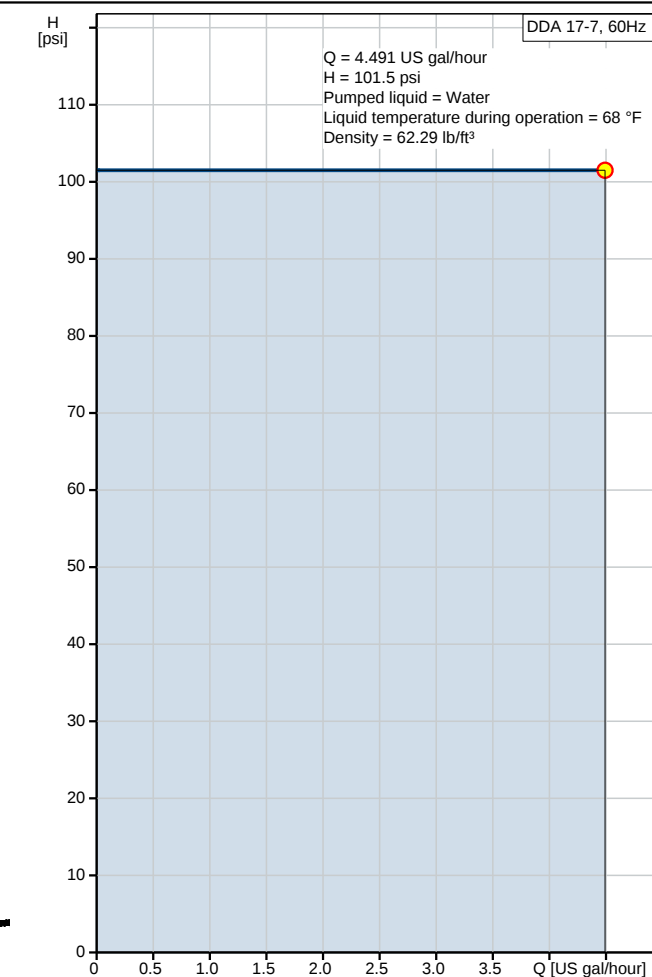
Date:

4/11/2019

97722638 DDA 17-7 60 Hz



Description	Value
General information:	
Product name:	DDA 17-7
Product No.:	97722638
EAN:	5710622728019
Technical:	
Type key:	DDA 17-7 FCM-PVC/E/C-F-31U7U7B
Max. Flow:	4.491 US gal/hour
Max. flow in slow mode 50%:	2.245 US gal/hour
Max. flow in slow mode 25%:	1.123 US gal/hour
Min flow:	17.0 ml/h
Turn-down ratio:	1:1000
Approvals on nameplate:	CE, CSA-US, NSF61, RCM
Valve type:	Standard
Maximum viscosity at 100 %:	300 mPas
Maximum viscosity in slow mode 50 %:	1300 mPas
Maximum viscosity in slow mode 25 %:	2000 mPas
Accuracy of repeatability:	1 %
Materials:	
Dosing head:	PVC (Polyvinyl chloride)
Valve ball:	Ceramic
Gasket:	EPDM
Installation:	
Range of ambient temperature:	32 .. 113 °F
Maximum operating pressure:	101.53 psi
Installation set:	NO
Installation type:	No installation set
Pump inlet:	0.17x 1/4, 1/4x3/8, 3/8x1/2"
Pump outlet:	0.17x 1/4, 1/4x3/8, 3/8x1/2"
Max. Suction lift during operation:	19.7 ft
Max. Suction lift during priming:	9.84 ft
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	14 .. 113 °F
Selected liquid temperature:	68 °F
Density:	62.29 lb/ft³
Electrical data:	
Maximum power input - P1:	24 W
Main frequency:	60 Hz
Rated voltage:	1 x 100-240 V
Enclosure class (IEC 34-5):	IP65 / NEMA 4X
Length of cable:	4.92 ft
Type of cable plug:	USA, Canada
Inrush current:	25A at 230V for 2ms
Controls:	
Control variant:	FCM
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
Others:	
Net weight:	4.41 lb





Company name:

Created by:

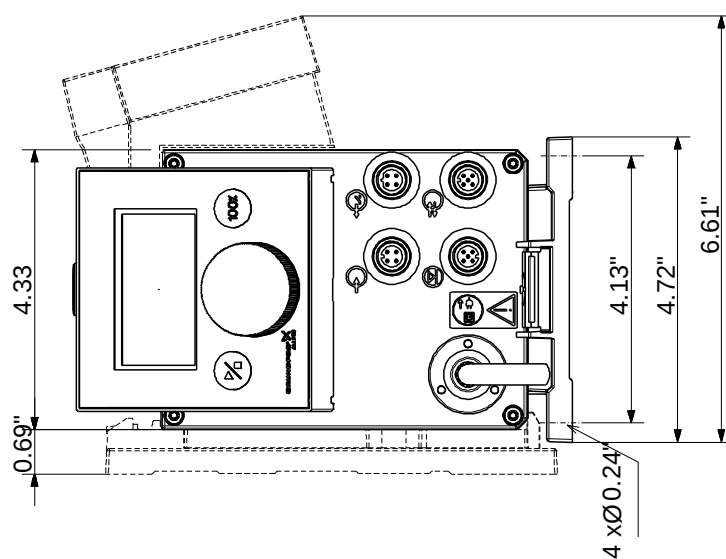
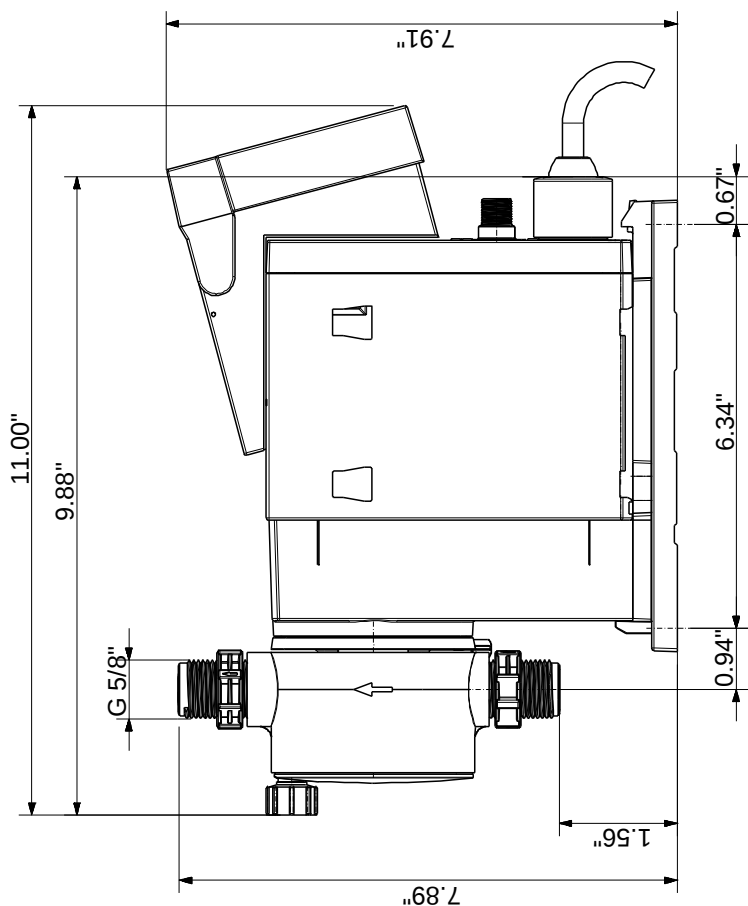
Phone:

Date:

4/11/2019

Description	Value
Gross weight:	6.62 lb
COLOR:	RED
Custom tariff no.:	8413.50.0050

97722638 DDA 17-7 60 Hz



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



Company name:

Created by:

Phone:

Date:

4/11/2019

Order Data:

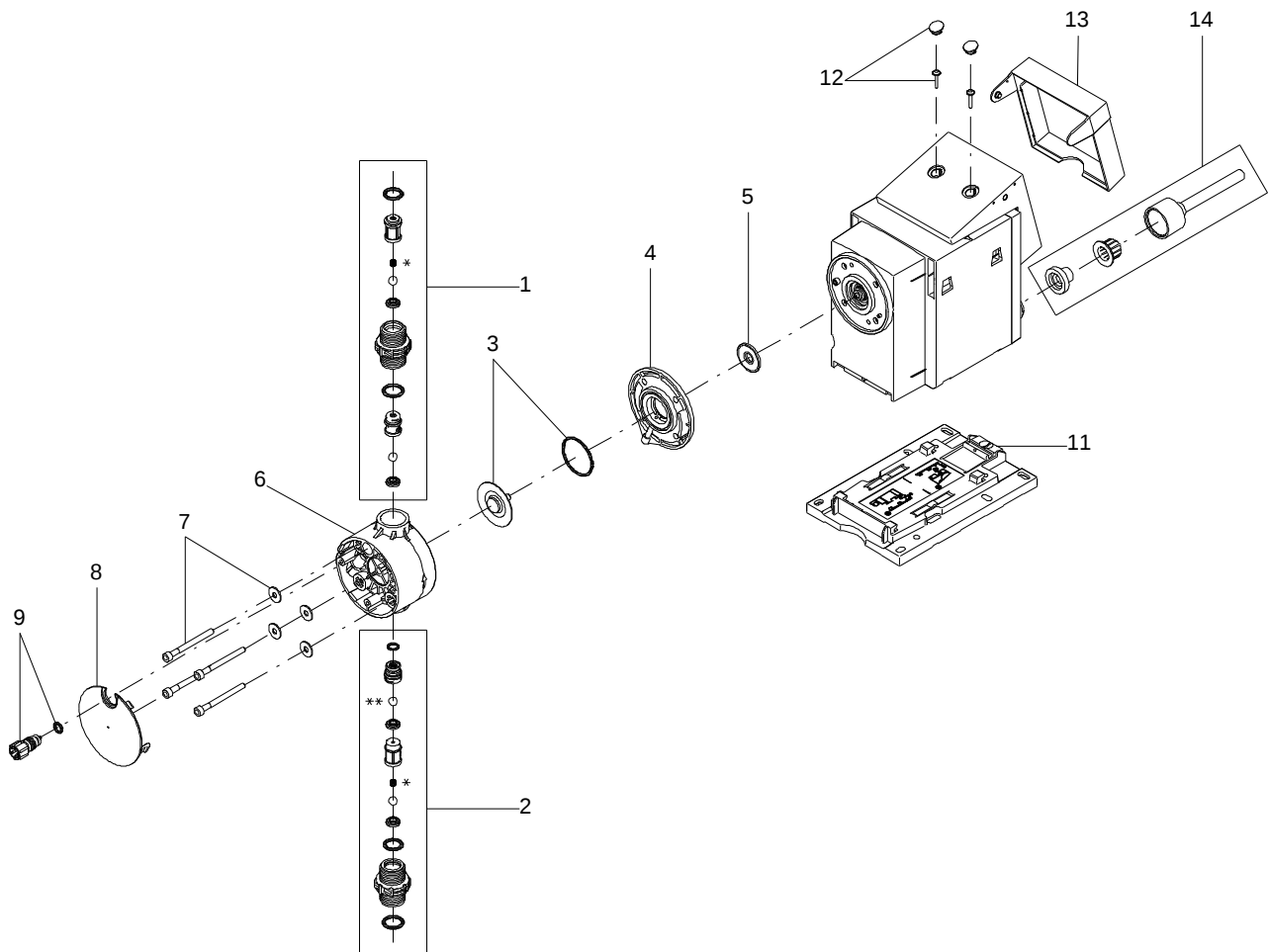
Product name: DDA 17-7

Amount: 1

Product No.: 97722638

Total: Price on request

Exploded view



166x112

Parts list DDA 17-7, Prod number 97722638

Produced After 1132 (production year and week number)

Position	Description	Annotation	Classification data	Part No.	Count	Unit
- 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				2	
	Ball				2	
	Valve housing				1	
	Ball cage				1	
	Ball cage				1	
3	O-ring				1	pcs
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