Company name:
Created by:
Phone:

Date: 4/11/2019

Count	Description
1	**DDA 7.5-16**

Product photo could vary from the actual product

Product No.: 97722377
DDA 7.5-16 AR-PV/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 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, 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: 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:
- 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 7.5-16 AR-PV/E/C-F-31U7U7B

GRUNDFOS

Company name:
Created by:
Phone:

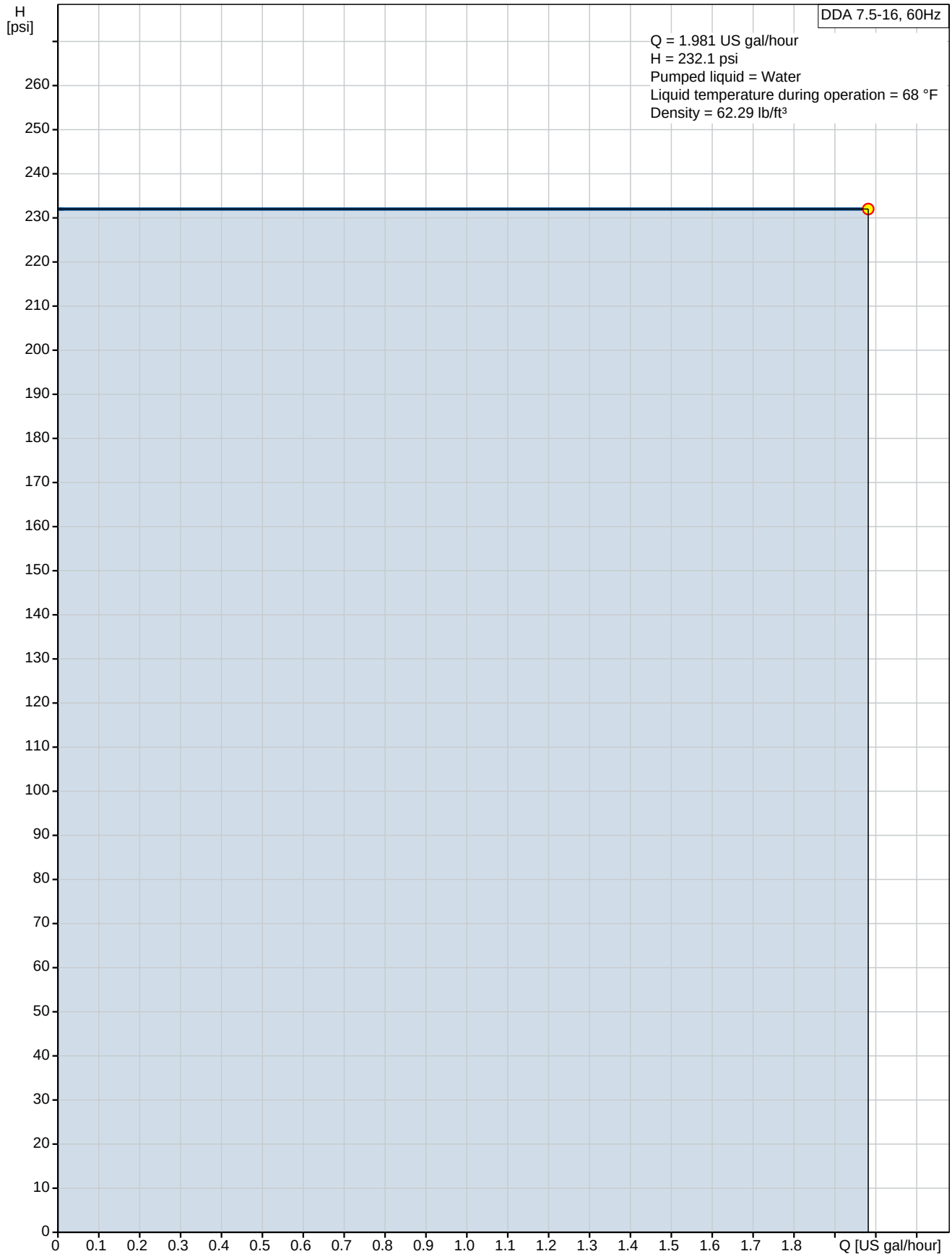
Date: 4/11/2019

Count	Description	
	Max. Flow:	1.981 US gal/hour
	Max. flow in slow mode 50%:	0.9906 US gal/hour
	Max. flow in slow mode 25%:	0.4966 US gal/hour
	Min flow:	2.5 ml/h
	Turn-down ratio:	1:3000
	Approvals on nameplate:	CE,CSA-US,NSF61,RCM
	Valve type:	Standard
	Maximum viscosity at 100 %:	50 mPas
	Maximum viscosity in slow mode 50 %:	1800 mPas
	Maximum viscosity in slow mode 25 %:	2500 mPas
	Accuracy of repeatability:	1 %
	Materials:	
	Dosing head:	PVDF (Polyvinylidene fluoride)
	Valve ball:	Ceramic
	Gasket:	EPDM
	Installation:	
	Range of ambient temperature:	32 .. 113 °F
	Maximum operating pressure:	232.06 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:	6.56 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:	AR
	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
	COLOR:	RED
	Custom tariff no.:	8413.50.0050

Company name:
Created by:
Phone:

Date: 4/11/2019

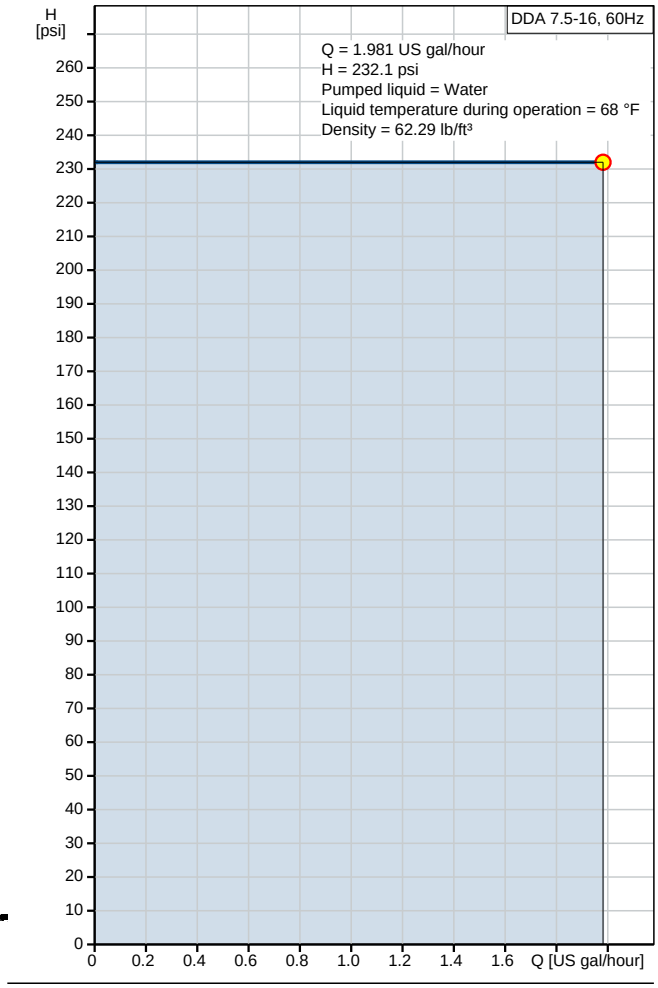
97722377 DDA 7.5-16 60 Hz

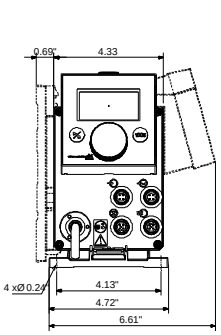


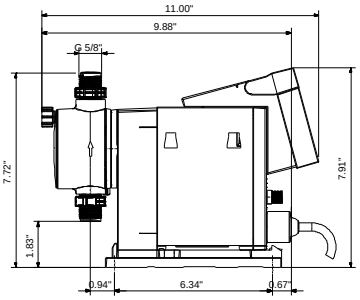
Company name:
Created by:
Phone:

Date: 4/11/2019

Description	Value
General information:	
Product name:	DDA 7.5-16
Product No.:	97722377
EAN:	5710622725193
Technical:	
Type key:	DDA 7.5-16 AR-PV/E/C-F-31U7U7B
Max. Flow:	1.981 US gal/hour
Max. flow in slow mode 50%:	0.9906 US gal/hour
Max. flow in slow mode 25%:	0.4966 US gal/hour
Min flow:	2.5 ml/h
Turn-down ratio:	1:3000
Approvals on nameplate:	CE,CSA-US,NSF61,RCM
Valve type:	Standard
Maximum viscosity at 100 %:	50 mPas
Maximum viscosity in slow mode 50 %:	1800 mPas
Maximum viscosity in slow mode 25 %:	2500 mPas
Accuracy of repeatability:	1 %
Materials:	
Dosing head:	PVDF (Polyvinylidene fluoride)
Valve ball:	Ceramic
Gasket:	EPDM
Installation:	
Range of ambient temperature:	32 .. 113 °F
Maximum operating pressure:	232.06 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:	6.56 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:	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
Others:	
Net weight:	6.62 lb
Gross weight:	8.82 lb







Company name:
Created by:
Phone:

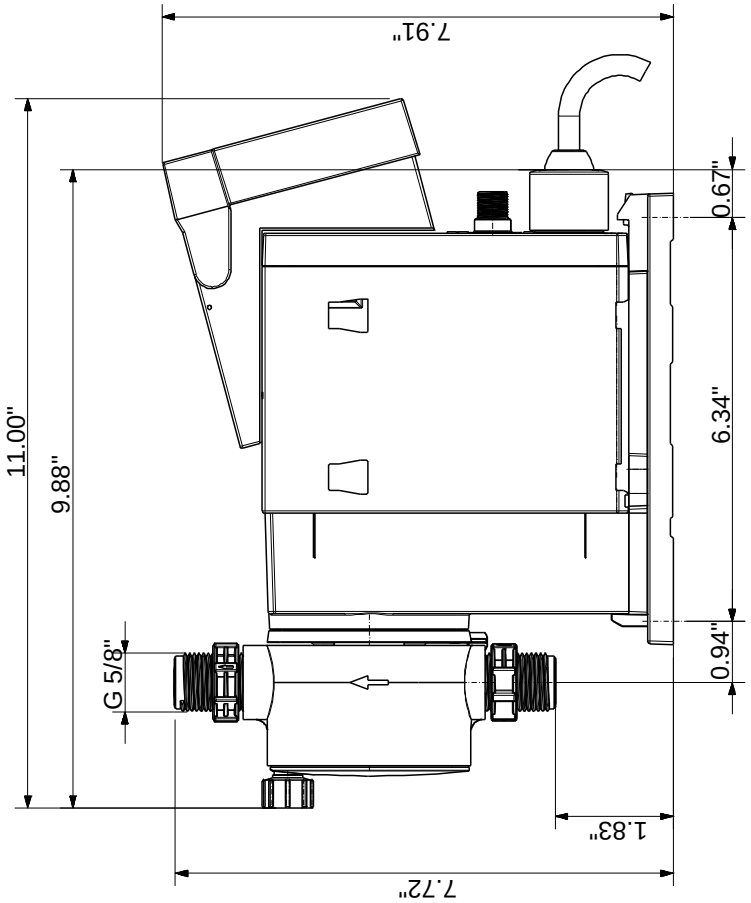
Date: 4/11/2019

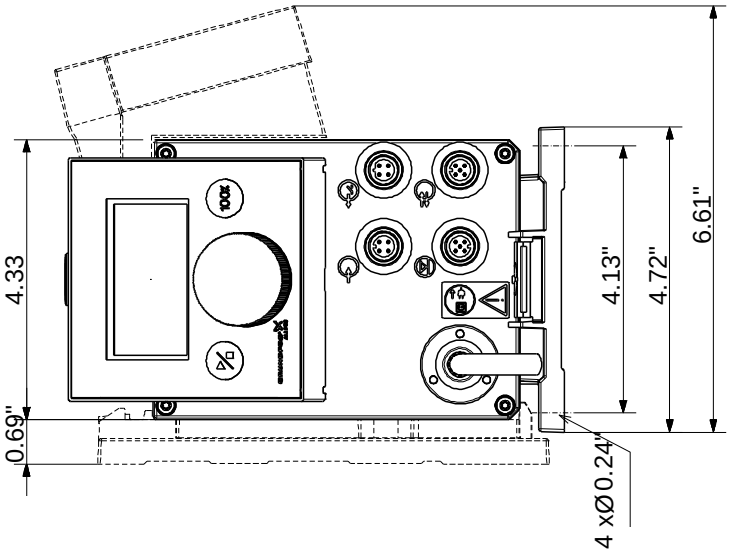
Description	Value
COLOR:	RED
Custom tariff no.:	8413.50.0050

Company name:
Created by:
Phone:

Date: 4/11/2019

97722377 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.

Company name:
Created by:
Phone:

Date: 4/11/2019

Order Data:

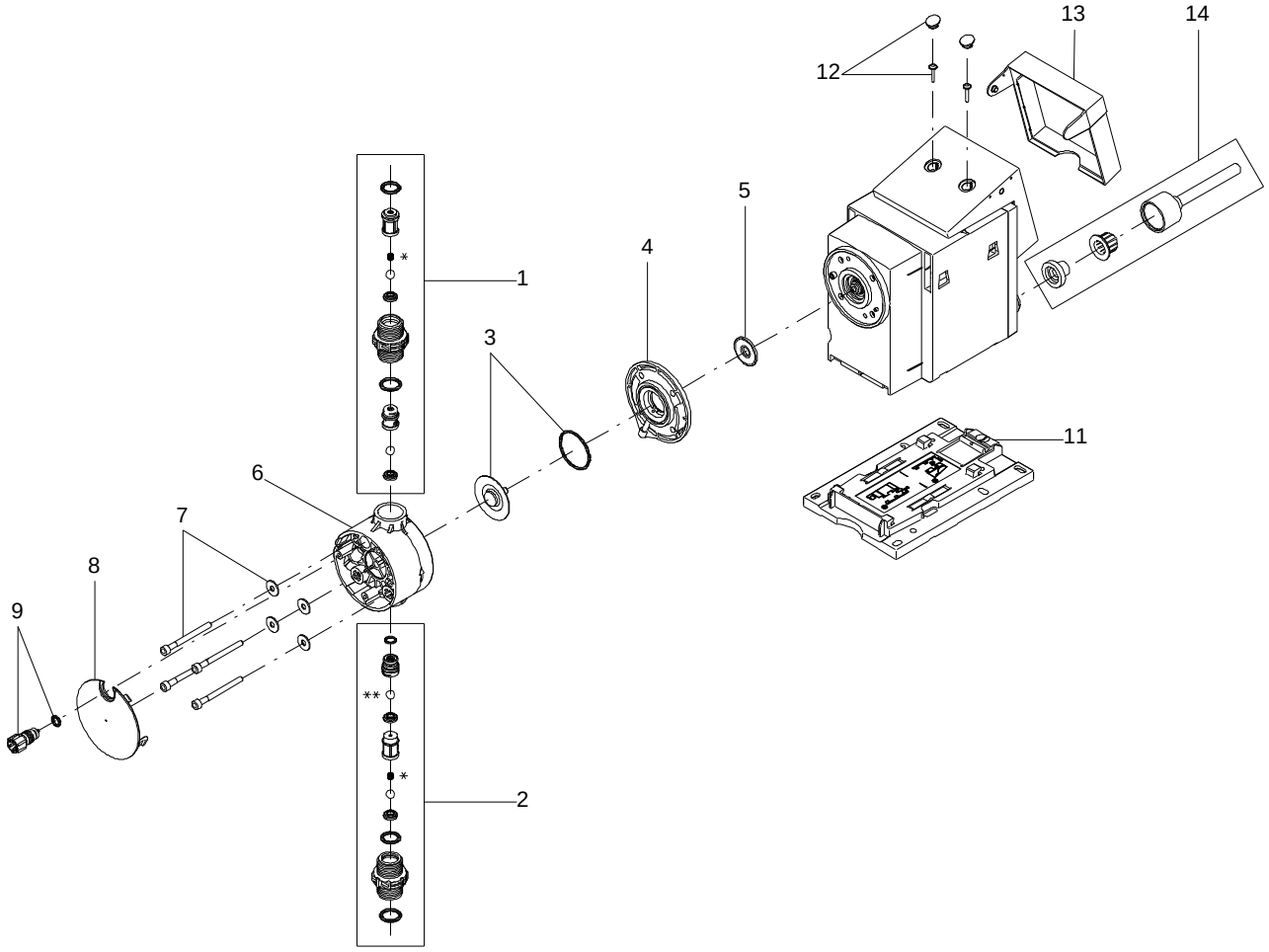
Product name: DDA 7.5-16
Amount: 1
Product No.: 97722377

Total: Price on request

Company name:
Created by:
Phone:

Date: 4/11/2019

Exploded view



166x112

GRUNDFOS

Company name:
Created by:
Phone:

Date: 4/11/2019

Parts list DDA 7.5-16, Prod number 97722377
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				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	Dosing 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