

Date: 4/11/2019

Count | Description

1

DDE 15-4



Product photo could vary from the actual product

Product No.: 97721143

DDE 15-4 B-PV/V/C-X-31U7U7BG

The SMART Digital DDE 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 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 dosing flow can be adjusted by means of an adjustment knob on a logarithmical scale from 0.1-100%.

The dosing head is composed of:

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

Operation modes:

- Manual dosing from 0.1 to 100%.

Other features:

- Mechanical lock to protect the pump against unauthorised access.

Technical:

Type key: DDE 15-4 B-PV/V/C-X-31U7U7BG

Max. Flow: 3.963 US gal/hour

Min flow: 15.0 ml/h Turn-down ratio: 1:1000

Approvals on nameplate: CE,CSA-US,NSF61,RCM

Valve type: Standard Maximum viscosity at 100 %: 50 mPas

Maximum viscosity in slow mode 50 %: N/A mPas Maximum viscosity in slow mode 25 %: N/A mPas

Accuracy of repeatability: 5 %

Materials:

Dosing head: PVDF (Polyvinylidene fluoride)

Valve ball: Ceramic Gasket: FKM

Installation:

Range of ambient temperature: 32 .. 113 °F Maximum operating pressure: 58.02 psi Installation set: NO

Installation type: No installation set



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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: 19 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: B
Ext. Stop input: NO

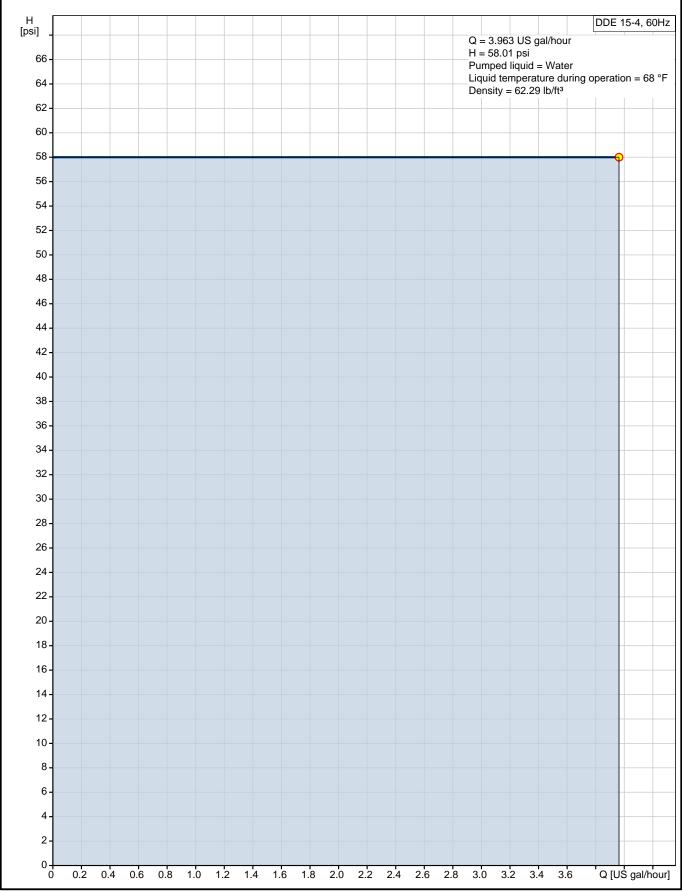
Others:

Net weight: 4.41 lb Gross weight: 6.62 lb Custom tariff no.: 8413.50.0050



Date: 4/11/2019

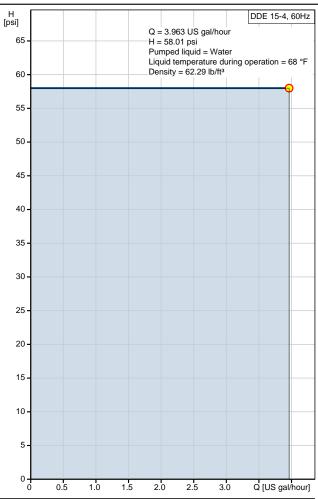
97721143 DDE 15-4 60 Hz

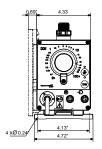


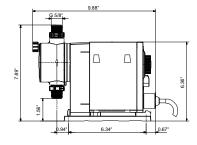


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Description Value General information: DDE 15-4 Product name: 97721143 EAN: 5710622712834 Technical: DDE 15-4 Type key: B-PV/V/C-X-31U7U7BG Max. Flow: 3.963 US gal/hour Min flow: 15.0 ml/h Turn-down ratio: 1:1000 Approvals on nameplate: CE,CSA-US,NSF61,RCM Valve type: Standard Maximum viscosity at 100 %: 50 mPas Maximum viscosity in slow mode 50 %: N/A mPas Maximum viscosity in slow mode 50 %: N/A mPas Accuracy of repeatability: 5 % Maximum viscosity in slow mode 50 %: N/A mPas Accuracy of repeatability: 5 % Maximum viscosity in slow mode 50 %: N/A mPas Accuracy of repeatability: 5 % Maximum viscosity in slow mode 50 %: N/A mPas Accuracy of repeatability: 5 % Maximum viscosity in slow mode 50 %: N/A mPas Accuracy of repeatability: 5 % Maximum viscosity in slow mode 50 %: N/A m	B	v .	
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Product No.: 97721143 EAN: 5710622712834 Technical: DDE 15-4 B-PV/V/C-X-31U7U7BG Max. Flow: 3.963 US gal/hour Min flow: 15.0 ml/h Turn-down ratio: 1:1000 Approvals on nameplate: CE,CSA-US,NSF61,RCM Valve type: Standard Maximum viscosity at 100 %: 50 mPas Maximum viscosity in slow mode 25 %: N/A mPas Accuracy of repeatability: 5 % Materials: PVDF (Polyvinylidene fluoride) Dosing head: PVDF (Polyvinylidene fluoride) Valve ball: Ceramic Gasket: FKM Installation: Range of ambient temperature: 32 113 °F Maximum operating pressure: 58.02 psi Installation set: NO No Installation type: No installation set Pump putlet: 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		DDE 45 4	
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Approvals on nameplate: CE,CSA-US,NSF61,RCM Valve type: Standard Maximum viscosity at 100 %: 50 mPas Maximum viscosity in slow mode 50 %: N/A mPas Maximum viscosity in slow mode 25 %: Accuracy of repeatability: 5 % Materials: Dosing head: PVDF (Polyvinylidene fluoride) Valve ball: Ceramic Gasket: FKM Installation: Range of ambient temperature: 32 113 °F Maximum operating pressure: 18.02 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" 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: Water Liquid temperature range: 14 113 °F Selected liquid temperature: 68 °F Density: 62.29 lb/ft³ Electrical data: Maximum power input - P1: 19 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: Controls: Control variant: B Ext. Stop input: NO Others: Net weight: 4.41 lb Gross weight: 6.62 lb	Min flow:	15.0 ml/h	
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Maximum viscosity in slow mode 25 %: Accuracy of repeatability: 5 % Materials: Dosing head: PVDF (Polyvinylidene fluoride) Valve ball: Ceramic Gasket: FKM Installation: Range of ambient temperature: 32 113 °F Maximum operating pressure: 58.02 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: 19 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: B Ext. Stop input: NO Others: Net weight: 4.41 lb Gross weight: 6.62 lb	Maximum viscosity at 100 %:	50 mPas	
Accuracy of repeatability: 5 % Materials: Dosing head: PVDF (Polyvinylidene fluoride) Valve ball: Ceramic Gasket: FKM Installation: Range of ambient temperature: 32 113 °F Maximum operating pressure: 58.02 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" 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: 19 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: B Ext. Stop input: NO Others: Net weight: 4.41 lb Gross weight: 6.62 lb		N/A mPas	
Materials:Dosing head:PVDF (Polyvinylidene fluoride)Valve ball:CeramicGasket:FKMInstallation:FKMRange of ambient temperature:32 113 °FMaximum operating pressure:58.02 psiInstallation set:NOInstallation type:No installation setPump 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 ftMax. Suction lift during priming:9.84 ftLiquid:WaterPumped liquid:WaterLiquid temperature range:14 113 °FSelected liquid temperature:68 °FDensity:62.29 lb/ft³Electrical data:Maximum power input - P1:19 WMain frequency:60 HzRated voltage:1 x 100-240 VEnclosure class (IEC 34-5):IP65 / NEMA 4XLength of cable:4.92 ftType of cable plug:USA, CanadaInrush current:25A at 230V for 2msControls:Controls:Control variant:BExt. Stop input:NOOthers:NONet weight:4.41 lbGross weight:6.62 lb	Maximum viscosity in slow mode 25 %:	N/A mPas	
Materials:Dosing head:PVDF (Polyvinylidene fluoride)Valve ball:CeramicGasket:FKMInstallation:FKMRange of ambient temperature:32 113 °FMaximum operating pressure:58.02 psiInstallation set:NOInstallation type:No installation setPump 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 ftMax. Suction lift during priming:9.84 ftLiquid:WaterPumped liquid:WaterLiquid temperature range:14 113 °FSelected liquid temperature:68 °FDensity:62.29 lb/ft³Electrical data:Maximum power input - P1:19 WMain frequency:60 HzRated voltage:1 x 100-240 VEnclosure class (IEC 34-5):IP65 / NEMA 4XLength of cable:4.92 ftType of cable plug:USA, CanadaInrush current:25A at 230V for 2msControls:Controls:Control variant:BExt. Stop input:NOOthers:NONet weight:4.41 lbGross weight:6.62 lb	Accuracy of repeatability:	5 %	
Valve ball: Gasket: FKM Installation: Range of ambient temperature: Maximum operating pressure: Installation set: NO Installation type: No installation set Pump inlet: Pump outlet: Max. Suction lift during operation: Max. Suction lift during priming: Pumped liquid: Liquid: Pumped liquid: Water Liquid temperature range: Liquid temperature: Belected liquid temperature: Belected liquid temperature: Belectrical data: Maximum power input - P1: Maximum power input - P1: Rated voltage: Enclosure class (IEC 34-5): IP65 / NEMA 4X Length of cable: Type of cable plug: IP65 / NEMA 4X Length of cable: Control variant: Belext. Stop input: NO Others: Net weight: A41 lb Gross weight: 62 - 29 lb Main frequency: Belected liquid temperature: Belecterical data: Auximum power input - P1: Belecterical data: Bele			
Gasket: FKM Installation: Range of ambient temperature: 32 113 °F Maximum operating pressure: 58.02 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: 19 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: B Ext. Stop input: NO Others: Net weight: 4.41 lb Gross weight: 6.62 lb	Dosing head:	PVDF (Polyvinylidene fluoride)	
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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: 19 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: B Ext. Stop input: NO Others: Net weight: 4.41 lb Gross weight: 6.62 lb	<u>'</u>		
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Liquid: Pumped liquid: Uquid temperature range: Selected liquid temperature: Belectrical data: Maximum power input - P1: Main frequency: Rated voltage: In x 100-240 V Enclosure class (IEC 34-5): Length of cable: Type of cable plug: Inrush current: Controls: Controls: Control variant: Belectrical data: Maximum power input - P1: Belectrical data: Maximum power input - P1: 19 W Main frequency: 60 Hz 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: Belectrical data: NO Others: Net weight: 4.41 lb Gross weight: 6.62 lb			
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: 19 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 lnrush current: 25A at 230V for 2ms Controls: Control variant: B Ext. Stop input: NO Others: Net weight: 4.41 lb Gross weight: 6.62 lb		3.04 10	
Liquid temperature range: Selected liquid temperature: 68 °F Density: 62.29 lb/ft³ Electrical data: Maximum power input - P1: Main frequency: 60 Hz Rated voltage: 1 x 100-240 V Enclosure class (IEC 34-5): Length of cable: 4.92 ft Type of cable plug: USA, Canada Inrush current: 25A at 230V for 2ms Controls: Control variant: B Ext. Stop input: NO Others: Net weight: 4.41 lb Gross weight: 6.62 lb		Water	
Selected liquid temperature: 68 °F Density: 62.29 lb/ft³ Electrical data: Maximum power input - P1: 19 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: B Ext. Stop input: NO Others: Net weight: 4.41 lb Gross weight: 6.62 lb			
Density: 62.29 lb/ft³ Electrical data: Maximum power input - P1: 19 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: B Ext. Stop input: NO Others: Net weight: 4.41 lb Gross weight: 6.62 lb			
Electrical data: Maximum power input - P1: 19 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: B Ext. Stop input: NO Others: Net weight: 4.41 lb Gross weight: 6.62 lb	·		
Maximum power input - P1: 19 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: B Ext. Stop input: NO Others: Net weight: 4.41 lb Gross weight: 6.62 lb	-	62.29 ID/IE	
Main frequency: Rated voltage: 1 x 100-240 V Enclosure class (IEC 34-5): Length of cable: 4.92 ft Type of cable plug: USA, Canada Inrush current: 25A at 230V for 2ms Controls: Control variant: B Ext. Stop input: NO Others: Net weight: Gross weight: 6.62 lb		10 W	
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: B Ext. Stop input: NO Others: Net weight: 4.41 lb Gross weight: 6.62 lb			
Enclosure class (IEC 34-5): Length of cable: Type of cable plug: USA, Canada Inrush current: 25A at 230V for 2ms Controls: Control variant: B Ext. Stop input: NO Others: Net weight: Gross weight: IP65 / NEMA 4X 4.92 ft USA, Canada Inrush current: 25A at 230V for 2ms Other 2ms A 4.41 lb Gross weight: 6.62 lb			
Length of cable: Type of cable plug: USA, Canada Inrush current: 25A at 230V for 2ms Controls: Control variant: B Ext. Stop input: NO Others: Net weight: Gross weight: 4.41 lb Gross weight: 6.62 lb			
Type of cable plug: USA, Canada Inrush current: 25A at 230V for 2ms Controls: Control variant: B Ext. Stop input: NO Others: Net weight: 4.41 lb Gross weight: 6.62 lb			
Inrush current: 25A at 230V for 2ms Controls: Control variant: Ext. Stop input: NO Others: Net weight: Net weight: 4.41 lb Gross weight: 6.62 lb		***= **	
Controls: Control variant: Ext. Stop input: NO Others: Net weight: Gross weight: 6.62 lb		•	
Control variant: Ext. Stop input: NO Others: Net weight: Gross weight: 6.62 lb		25A at 230V for 2ms	
Ext. Stop input: NO Others: Net weight: 4.41 lb Gross weight: 6.62 lb			
Others: Net weight: Gross weight: 4.41 lb 6.62 lb			
Net weight: 4.41 lb Gross weight: 6.62 lb		NO	
Gross weight: 6.62 lb	Others:		
-		4.41 lb	
Custom tariff no.: 8413.50.0050	Gross weight:	6.62 lb	
	Custom tariff no.:	8413.50.0050	



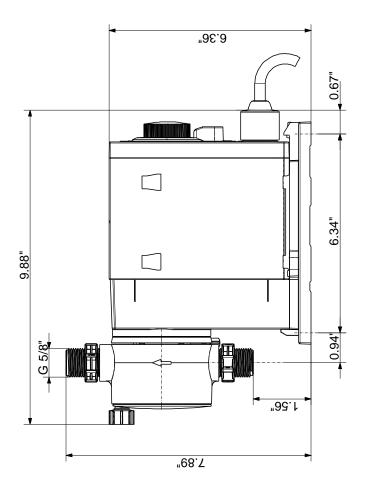


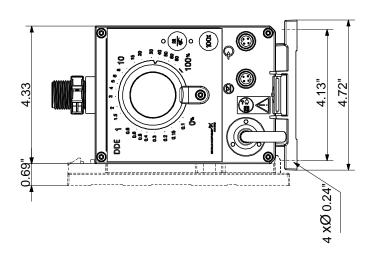




Date: 4/11/2019

97721143 DDE 15-4 60 Hz





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



Date: 4/11/2019

Order Data:

Product name: DDE 15-4

Amount: 1

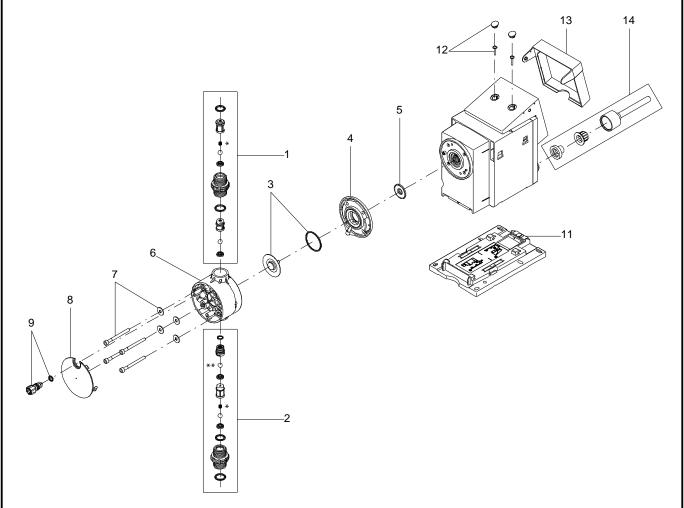
Product No.: 97721143

Total: Price on request



Date: 4/11/2019

Exploded view



166x112



Date: 4/11/2019

Parts list DDE 15-4, Prod number 97721143 Produced After 1132 (production year and week number)

Position		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	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
14	Power cable				1	pcs