

Date: 25/02/2020

Qty. | Description

1 DDA 7.5-16



Note! Product picture may differ from actual product

Product No.: 97721950

DDA 7.5-16 AR-PVC/V/C-F-31U2U2

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: 3.75 l/h) and 25 % (maximum flow: 1.88 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 7.5-16 AR-PVC/V/C-F-31U2U2



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 Max. Flow:
 7.5 l/h

 Max. flow in slow mode 50%:
 3.75 l/h

 Max. flow in slow mode 25%:
 1.88 l/h

 Min flow:
 2.5 ml/h

 Turn-down ratio:
 1:3000

Approvals on nameplate: CE,CSA-US,NSF61,EAC,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: PVC (Polyvinyl chloride)

Valve ball: Ceramic Gasket: FKM

Installation:

Range of ambient temperature: 0 .. 45 °C Maximum operating pressure: 10 bar NO NO

Installation type:

Pump inlet:

Pump outlet:

No installation set

4/6, 6/9, 6/12, 9/12 mm

4/6, 6/9, 6/12, 9/12 mm

Max. Suction lift during operation: $6\ m$ Max. Suction lift during priming: $2\ m$

Liquid:

Pumped liquid: Water
Liquid temperature range: -10 .. 45 °C
Selected liquid temperature: 20 °C
Density: 998.2 kg/m³

Electrical data:

Maximum power input - P1: 24 W
Mains frequency: 50 / 60 Hz
Rated voltage: 1 x 100-240 V
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

Controls:

Control variant:
Level control:
Analog input:
Pulse control:
Ext. Stop input:
Analog output:

O/4-20 MA
YES
Analog output:
O/4-20 MA

Output relays: 2
Bus communication: YES

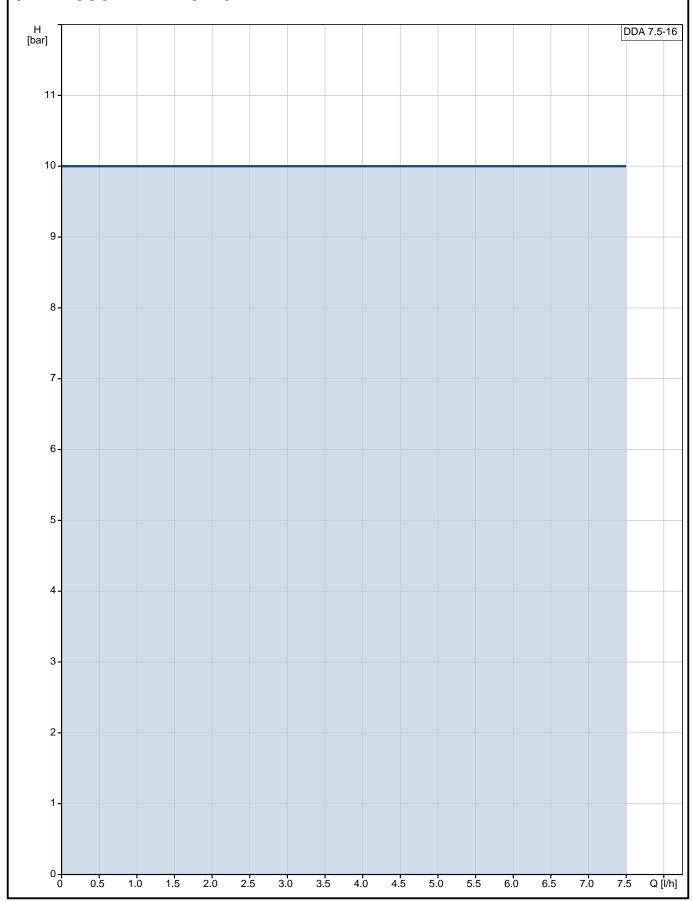
Others:

Net weight: 2 kg
Gross weight: 3 kg
Color: RED
Finnish LVI No.: 4981119
Country of origin: GB
Custom tariff no.: 84135040



Date: 25/02/2020

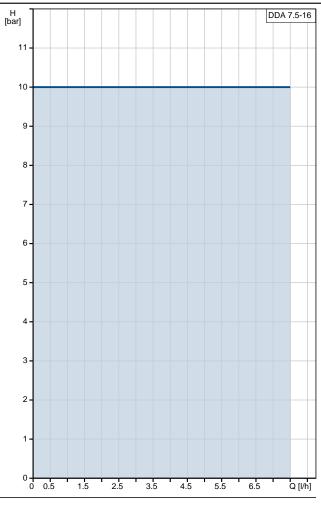
97721950 DDA 7.5-16

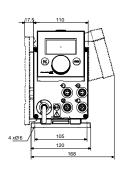


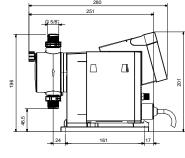


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Ceneral information: Product name:	Description	Value
Product No: 97721950 EAN number: 5710622720921 5710622720921 5710622720921 Price: 1.590,00 GBP Technical: Type key: DDA 7.5-16		· uruo
Product No: 97721950 EAN number: 5710622720921 Frice: 1.590,00 GBP Technical: Type key: DDA 7.5-16 AR-PVC/V/C-F-31U2U2 Max. Flow: 7.5 l/h Max. flow in slow mode 50%: 3.75 l/h Max. flow in slow mode 25%: 1.88 l/h Min flow: 2.5 ml/h Turn-down ratio: 1:3000 Approvals on nameplate: CE, CSA-US, NSF61, EAC, RCM Valve type: Standard Maximum viscosity at 100 %: 50 mPas Maximum viscosity in slow mode 25%: 180 mPas Maximum viscosity in slow mode 25%: 1 % Materials: 1 % Materials: 1 % Materials: 1 % Materials: 1 No Installation: Range of ambient temperature: 0 45 °C Maximum operating pressure: 10 bar Installation set: NO Installation set: NO Max. Suction lift during operation: 6 m Max. Suction lift during priming: 2 m Liquid: Pumped liquid: Water Liquid temperature range: -10 45 °C Selected liquid temperature: 20 °C Selected liquid temperature: 20 °C Selectrical data: Maximum power input - P1: 24 W Mains frequency: 50 /60 Hz Rated voltage: 1.5 m Maximum power input - P1: 24 W Mains frequency: 50 /60 Hz Rated voltage: 1.5 m Type of cable plug: EU Inrush current: 25A at 230V for 2ms Controls: Control yariant: AR Control panel: FRONT-MOUNTED Level control: YES Control variant: AR Control panel: FRONT-MOUNTED Level control: YES Ext. Stop input: VES		DDA 7 5-16
EAN number: 5710622720921 Price: 1.590,00 GBP Technical: Type key: AR-PVC/V/C-F-31U2U2 Max. Flow: 7.5 l/h Max. flow in slow mode 50%: 3.75 l/h Max. flow in slow mode 25%: 1.88 l/h Min flow: 2.5 ml/h Turn-down ratio: 1.3000 Approvals on nameplate: CE,CSA-US,NSF61,EAC,RCM Valve type: Standard Maximum viscosity at 100 %: 50 mPas Maximum viscosity in slow mode 25%: 1800 mPas Maximum viscosity in slow mode 25%: 1 % Maximum viscosity in slow mode 25%: 1 % Maximum viscosity in slow mode 25%: 1 % Maximum viscosity in slow mode 25 %: 1 % Maximum viscosity in slow mode 25 %: 1 % Maximum viscosity in slow mode 25 %: 1 % Maximum viscosity in slow mode 25 %: 1 % Maximum viscosity in slow mode 25 %: 1 % Maximum viscosity in slow mode 25 %: 1 % Materials:		
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Technical: DDA 7.5-16 AR-PVC/V/C-F-31U2U2 Max. Flow: 7.5 l/h Max. flow in slow mode 50%: 3.75 l/h Max. flow in slow mode 25%: 1.88 l/h Min flow: 2.5 ml/h Turn-down ratio: 1:3000 Approvals on nameplate: CE, CSA-US, NSF61, EAC, RCM Valve type: Standard Maximum viscosity at 100 %: 50 mPas Maximum viscosity in slow mode 25 %: 2500 mPas Maximum viscosity in slow mode 25 %: 1 % Materials: Dosing head: PVC (Polyvinyl chloride) Valve ball: Ceramic Gasket: FKM Installation: Range of ambient temperature: 0 45 °C 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: 6 m Max. Suction lift during priming: 2 m Liquid temperature range: 20 °C	Drice	* **
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Max. Flow: AR-PVC/V/C-F-31U2U2	recnnicai:	DDA 7.5.40
Max. flow in slow mode 50%: 3.75 l/h Max. flow in slow mode 25%: 1.88 l/h Min flow: 2.5 ml/h Turn-down ratio: 1:3000 Approvals on nameplate: CE,CSA-US,NSF61,EAC,RCM Valve type: Standard Maximum viscosity at 100 %: 50 mPas Maximum viscosity in slow mode 50 %: 2500 mPas Maximum viscosity in slow mode 50 %: 2500 mPas Maximum viscosity in slow mode 50 %: 2500 mPas Maximum viscosity in slow mode 50 %: 2500 mPas Maximum viscosity in slow mode 50 %: 2500 mPas Maximum viscosity in slow mode 50 %: 2500 mPas Maximum viscosity in slow mode 50 %: 2500 mPas Accuracy of repeatability: 1 % Maximum viscosity in slow mode 50 %: 2500 mPas Selectrials: PVC (Polyvinyl chloride) Valve ball: Ceramic Gasket: FKM Installation: R Maximum operating: 0 45 °C Maximum operating pressure: 10 bar Installation type: No installation set <t< td=""><td></td><td>AR-PVC/V/C-F-31U2U2</td></t<>		AR-PVC/V/C-F-31U2U2
Max. flow in slow mode 25%: 1.88 l/h Min flow: 2.5 ml/h Turn-down ratio: 1:3000 Approvals on nameplate: CE,CSA-US,NSF61,EAC,RCM Valve type: Standard Maximum viscosity at 100 %: 50 mPas Maximum viscosity in slow mode 50 %: 1800 mPas Maximum viscosity in slow mode 50 %: 2500 mPas Maximum viscosity in slow mode 50 %: 2500 mPas Maximum viscosity in slow mode 50 %: 2500 mPas Maximum viscosity in slow mode 50 %: 2500 mPas Maximum viscosity in slow mode 50 %: 2500 mPas Accuracy of repeatability: 1 % Materials: 1 Dosing head: PVC (Polyvinyl chloride) Valve ball: Ceramic FKM 1 Installation: 10 bar Installation: 10 bar Installation set NO Installation type: No installation set Pump poutlet: 4/6, 6/9, 6/12, 9/12 mm Max. Suction lift during priming: 2 m Liquid: Water <t< td=""><td></td><td></td></t<>		
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Turn-down ratio: 1:3000 Approvals on nameplate: CE,CSA-US,NSF61,EAC,RCM Valve type: Standard Maximum viscosity at 100 %: 50 mPas Maximum viscosity in slow mode 25 %: 1800 mPas Maximum viscosity in slow mode 25 %: 1800 mPas Materials:	Max. flow in slow mode 25%:	1.88 l/h
Approvals on nameplate: CE,CSA-US,NSF61,EAC,RCM Valve type: Standard Maximum viscosity at 100 %: 50 mPas Maximum viscosity in slow mode 50 %: 1800 mPas Accuracy of repeatability: 1 % Materials:	Min flow:	2.5 ml/h
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Maximum viscosity at 100 %: 50 mPas Maximum viscosity in slow mode 50 %: 2500 mPas Maximum viscosity in slow mode 25 %: 2500 mPas Accuracy of repeatability: 1 % Materials:	Approvals on nameplate:	CE,CSA-US,NSF61,EAC,RCM
Maximum viscosity in slow mode 50 %: Maximum viscosity in slow mode 25 %: Accuracy of repeatability: Materials: Dosing head: Valve ball: Gasket: FKM Installation: Range of ambient temperature: Installation set: Installation set: Installation type: Pump inlet: Pump outlet: Max. Suction lift during operation: Max. Suction lift during priming: Liquid: Pumped liquid: Water Liquid temperature range: Selected liquid temperature: Maximum power input - P1: Action at 24 W Mains frequency: Rated voltage: Type of cable: Type of cable: Control yariant: AR Control panel: FKM PVC (Polyvinyl chloride) PVC (Polyvinyl chloride) Va water Liquid: PKM PVC (Polyvinyl chloride) Va veramic FKM No BVA °C Analog input: PVC (Polyvinyl chloride) A % Water Liquid temperating operation: Analog input: AR Control: Control: Control: Control: Control: Control: AR Pulse control: YES Ext. Stop input: YES	Valve type:	Standard
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250 meas Accuracy of repeatability: 1 % Materials: Dosing head: PVC (Polyvinyl chloride) Valve ball: Ceramic Gasket: FKM Installation: Range of ambient temperature: 0 45 °C Maximum operating pressure: 10 bar Installation set: NO 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: 6 m Max. Suction lift during priming: 2 m Liquid: Pumped liquid: Water Liquid temperature range: -10 45 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: Maximum power input - P1: 24 W Mains frequency: 50 / 60 Hz Rated voltage: 1 x 100-240 V 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 Controls: Control variant: AR Control panel: FRONT-MOUNTED Level control: YES Analog input: 0/4-20 MA Pulse control: YES Ext. Stop input: YES		1800 mPas
Materials:Dosing head:PVC (Polyvinyl chloride)Valve ball:CeramicGasket:FKMInstallation:FKMRange of ambient temperature:0 45 °CMaximum operating pressure:10 barInstallation set:NOInstallation type:No installation setPump inlet:4/6, 6/9, 6/12, 9/12 mmPump outlet:4/6, 6/9, 6/12, 9/12 mmMax. Suction lift during operation:6 mMax. Suction lift during priming:2 mLiquid:WaterLiquid temperature range:-10 45 °CSelected liquid temperature:20 °CDensity:998.2 kg/m³Electrical data:Maximum power input - P1:24 WMains frequency:50 / 60 HzRated voltage:1 x 100-240 VEnclosure class (IEC 34-5):IP65 / NEMA 4XLength of cable:1.5 mType of cable plug:EUInrush current:25A at 230V for 2msControls:Controls:Control variant:ARControl variant:ARControl panel:FRONT-MOUNTEDLevel control:YESAnalog input:0/4-20 MAPulse control:YESExt. Stop input:YES	Maximum viscosity in slow mode 25 %:	2500 mPas
Materials:Dosing head:PVC (Polyvinyl chloride)Valve ball:CeramicGasket:FKMInstallation:FKMRange of ambient temperature:0 45 °CMaximum operating pressure:10 barInstallation set:NOInstallation type:No installation setPump inlet:4/6, 6/9, 6/12, 9/12 mmPump outlet:4/6, 6/9, 6/12, 9/12 mmMax. Suction lift during operation:6 mMax. Suction lift during priming:2 mLiquid:WaterLiquid temperature range:-10 45 °CSelected liquid temperature:20 °CDensity:998.2 kg/m³Electrical data:Maximum power input - P1:24 WMains frequency:50 / 60 HzRated voltage:1 x 100-240 VEnclosure class (IEC 34-5):IP65 / NEMA 4XLength of cable:1.5 mType of cable plug:EUInrush current:25A at 230V for 2msControls:Controls:Control variant:ARControl variant:ARControl panel:FRONT-MOUNTEDLevel control:YESAnalog input:0/4-20 MAPulse control:YESExt. Stop input:YES	Accuracy of repeatability:	1 %
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Valve ball: Gasket: FKM Installation: Range of ambient temperature: 0 45 °C 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: 6 m Max. Suction lift during priming: 2 m Liquid: Pumped liquid: Water Liquid temperature range: -10 45 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: Maximum power input - P1: 24 W Mains frequency: 50 / 60 Hz Rated voltage: 1 x 100-240 V 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 Controls: Control variant: AR Control panel: FRONT-MOUNTED Level control: YES Analog input: 0/4-20 MA Pulse control: YES Ext. Stop input: YES		PVC (Polyvinyl chloride)
Gasket: FKM Installation: Range of ambient temperature: 0 45 °C 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: 6 m Max. Suction lift during priming: 2 m Liquid: Pumped liquid: Water Liquid temperature range: -10 45 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: Maximum power input - P1: 24 W Mains frequency: 50 / 60 Hz Rated voltage: 1 x 100-240 V 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 Controls: Control variant: AR Control panel: FRONT-MOUNTED Level control: YES Analog input: 0/4-20 MA Pulse control: YES Ext. Stop input: YES		
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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: 6 m Max. Suction lift during priming: 2 m Liquid: Pumped liquid: Water Liquid temperature range: -10 45 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: Maximum power input - P1: 24 W Mains frequency: 50 / 60 Hz Rated voltage: 1 x 100-240 V 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 Control variant: AR Control panel: FRONT-MOUNTED Level control: YES Analog input: 0/4-20 MA Pulse control: YES Ext. Stop input: YES		
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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	Rated voltage:	1 x 100-240 V
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		IP65 / NEMA 4X
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Level control: YES Analog input: 0/4-20 MA Pulse control: YES Ext. Stop input: YES		
Analog input: 0/4-20 MA Pulse control: YES Ext. Stop input: YES		
Pulse control: YES Ext. Stop input: YES		
Ext. Stop input: YES		
Arialog output: 0/4-20 MA		
Output relays: 2		
Bus communication: YES		YES
Others:	Otners:	









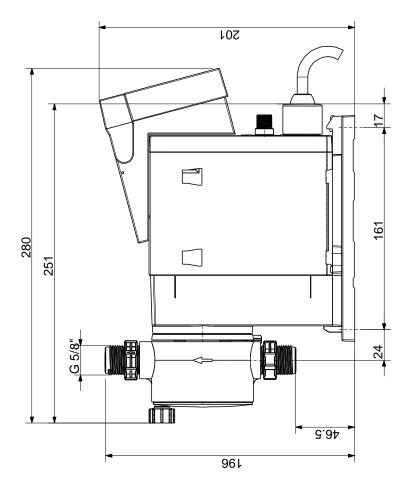
Date: 25/02/2020

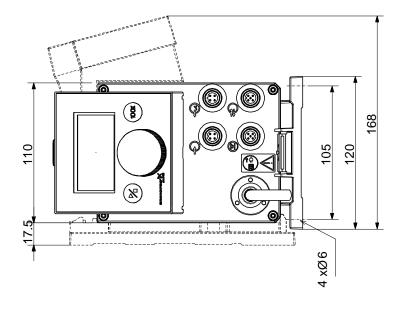
Description	Value
Net weight:	2 kg
Gross weight:	3 kg
Color:	RED
Finnish LVI No.:	4981119
Country of origin:	GB
Custom tariff no.:	84135040



Date: 25/02/2020

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