

TM30A-A

Micro Diaphragm Pump

TM30A-A



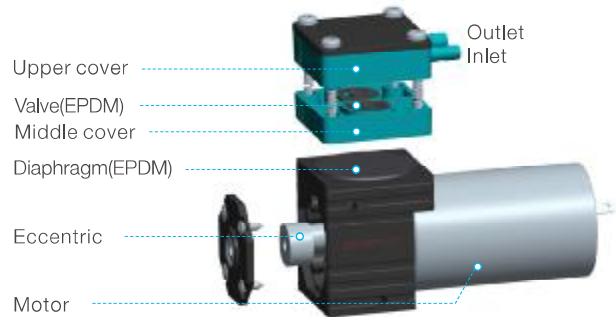
Typical Applications

- Industrial pressure and vacuum applications
- Portable analytical instruments
- Medical diagnostic equipment
- Air quality sampling monitors
- Respiration monitors
- Gas or odor leak detectors
- Ink-jet printer

Features

- Highest performance/size ratio
- Low noise and vibration
- Lasts reliably longer
- Compact and robust design
- Uncontaminated transfer
- High level of gas tightness
- Extreme chemical resistance
- Customizing available
- Can be mounted in any plane

Structure



Specification

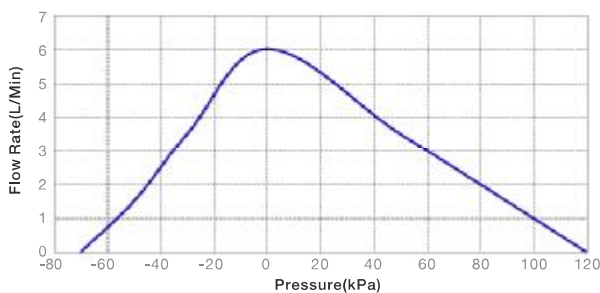
Model	Pressure Pump (Item Number)	Vacuum Pump (Item Number)	Rated Voltage (VDC)	No-load Current (A)	Max Pressure (Kpa)	Max Vacuum (Kpa)	Max Flow (L/min)	Motor Type	Lifetime (Hours)
TM30A-A	TM30A-A12-P12006	TM30A-A12-V7006	12	0.4	120	-70	6	Brush Motor	3,000
	TM30A-A24-P12006	TM30A-A24-V7006	24	0.3	120	-70	6	Brush Motor	3,000

Application Conditions:

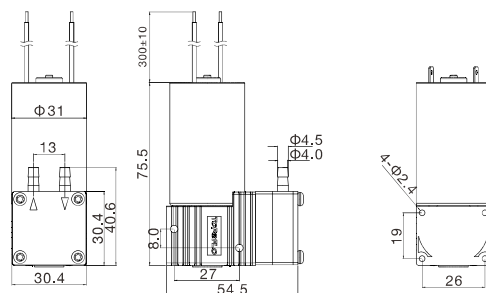
• Medium temperature: 5°C~60°C

• Ambient temperature: -20°C~60°C

Curve



Dimension (mm)



TM30A-B

Micro Diaphragm Pump

TM30A-B



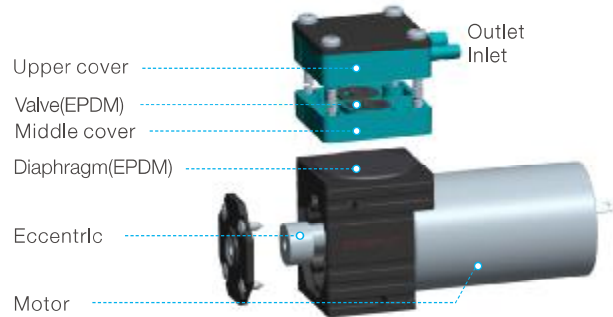
Typical Applications

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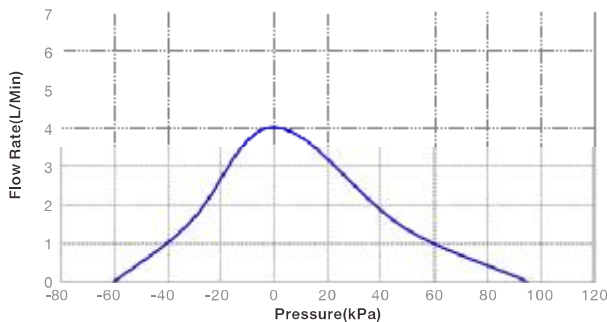
Model	Pressure Pump (Item Number)	Vacuum Pump (Item Number)	Rated Volatage (VDC)	No-load Current (A)	Max Pressure (Kpa)	Max Vacuum (Kpa)	Max Flow (L/min)	Motor Type	Lifetime (Hours)
TM30A-B	TM30A-B12-P9504	TM30A-B12-V6004	12	0.4	95	-60	4	Brush Motor	1,000
	TM30A-B24-P9504	TM30A-B24-V6004	24	0.2	95	-60	4	Brush Motor	1,000

Application Conditions:

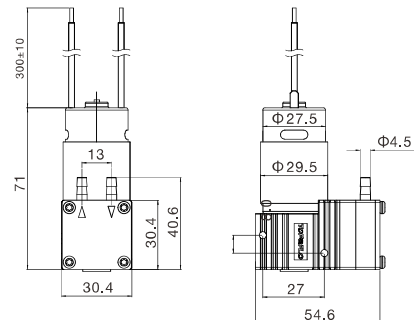
• Medium temperature: 5°C~60°C

• Ambient temperature: -20°C~60°C

Curve



Dimension (mm)



TM30A-C

Micro Diaphragm Pump



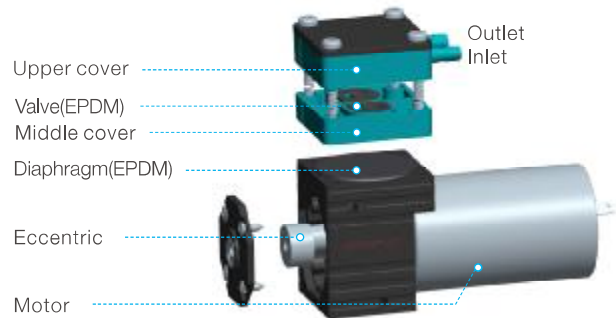
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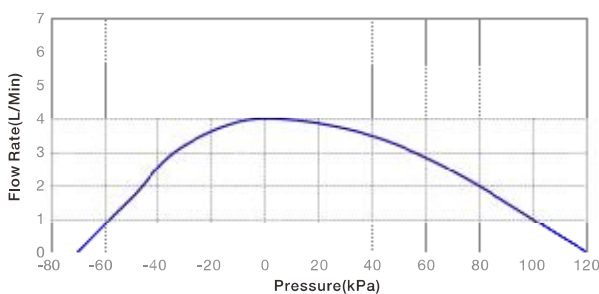
Model	Pressure Pump (Item Number)	Vacuum Pump (Item Number)	Rated Voltage (VDC)	No-load Current (A)	Max Pressure (Kpa)	Max Vacuum (Kpa)	Max Flow (L/min)	Motor Type	Lifetime (Hours)
TM30A-C	TM30A-C12-P12004	TM30A-C12-V7004	12	0.4	120	-70	4	BLDC	15,000
	TM30A-C24-P12004	TM30A-C24-V7004	24	0.3	120	-70	4	BLDC	15,000

Application Conditions:

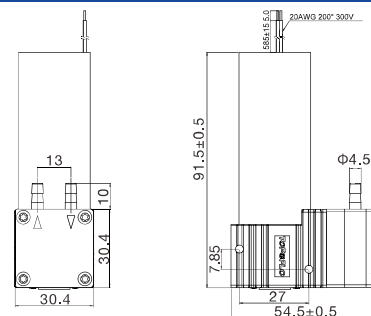
- Medium temperature: 5°C~60°C
- Ambient temperature: -20°C~60°C

Customization: • 5V (blue) speed control • FG (yellow) signal wire

Curve



Dimension (mm)



TM30A-D

Micro Diaphragm Pump



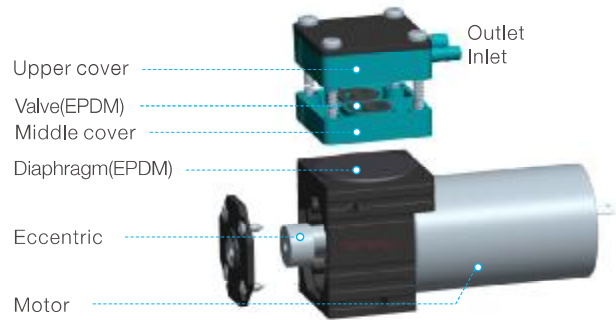
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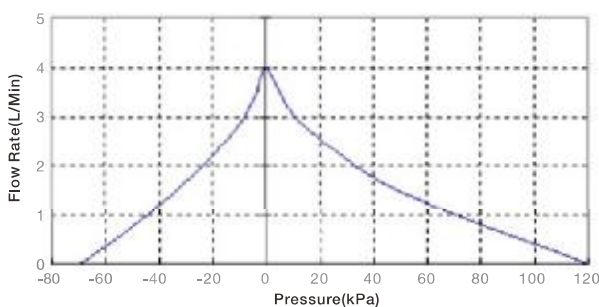
Structure



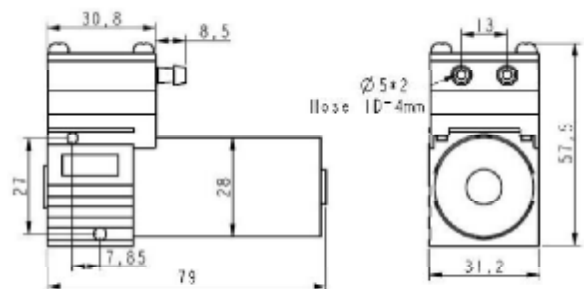
Specification

Model	Pressure Pump (Item Number)	Vacuum Pump (Item Number)	Rated Voltage (VDC)	No-load Current (A)	Max Pressure (Kpa)	Max Vacuum (Kpa)	Max Flow (L/min)	Motor Type	Lifetime (Hours)
TM30A-D	TM30A-D12-P12004	TM30A-D12-V7004	12	0.24	120	-70	4	BLDC	15,000
	TM30A-D24-P12004	TM30A-D24-V7004	24	0.15	120	-70	4	BLDC	15,000

Curve



Dimension (mm)



TM30B-A

Micro Diaphragm Pump

TM30B-A



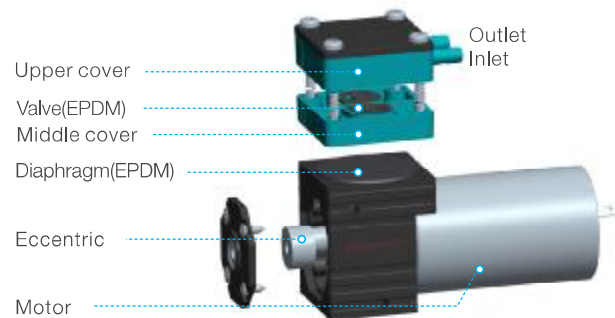
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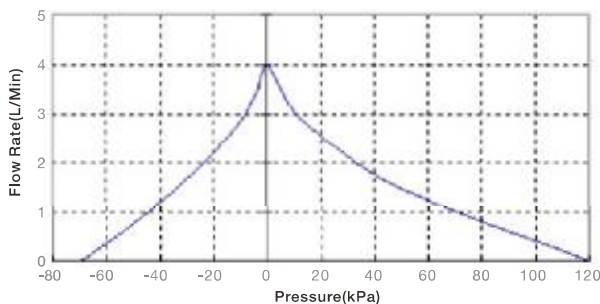
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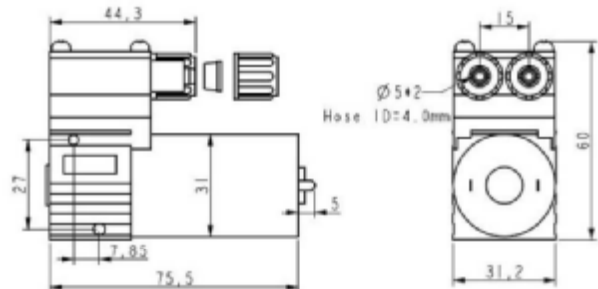
Specification

Model	Pressure Pump (Item Number)	Vacuum Pump (Item Number)	Rated Voltage (VDC)	No-load Current (A)	Max Pressure (Kpa)	Max Vacuum (Kpa)	Max Flow (L/min)	Motor Type	Lifetime (Hours)
TM30B-A	TM30B-A12-P10005	TM30B-A12-V5505	12	0,24	100	-55	5	Brush Motor	3,000
	TM30B-A24-P10005	TM30B-A24-V5505	24	0,15	100	-55	5	Brush Motor	3,000

Curve



Dimension (mm)



TM30B-C

Micro Diaphragm Pump

TM30B-C



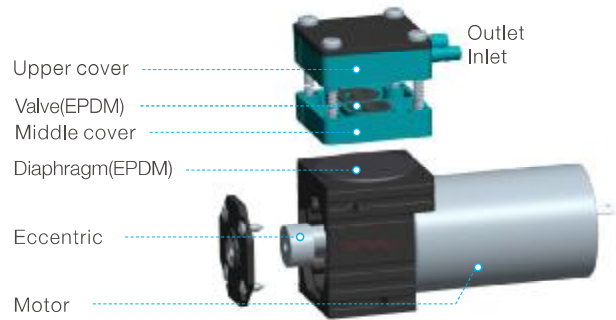
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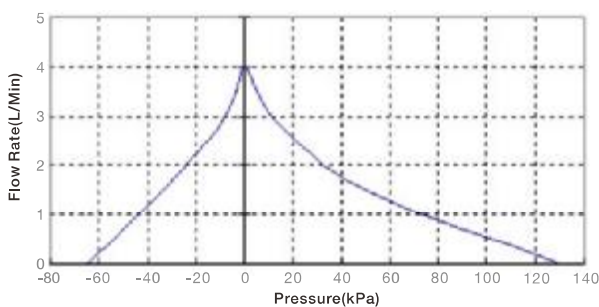
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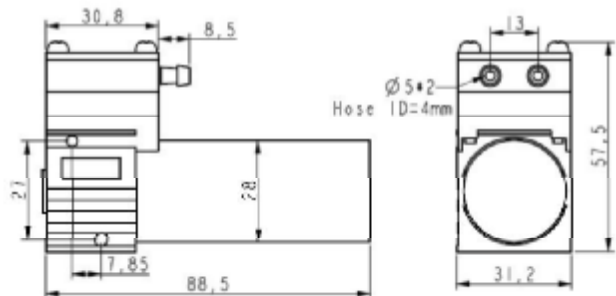
Specification

Model	Pressure Pump (Item Number)	Vacuum Pump (Item Number)	Rated Voltage (VDC)	No-load Current (A)	Max Pressure (Kpa)	Max Vacuum (Kpa)	Max Flow (L/min)	Motor Type	Lifetime (Hours)
TM30B-C	TM30B-C12-P13004	TM30B-C12-V6504	12	0.24	130	-65	4	BLDC	15,000
	TM30B-C24-P13004	TM30B-C24-V6504	24	0.15	130	-65	4	BLDC	15,000

Curve



Dimension (mm)



TM30B-D

Micro Diaphragm Pump

TM30B-D



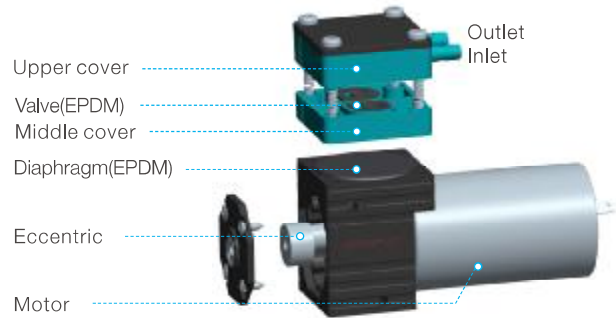
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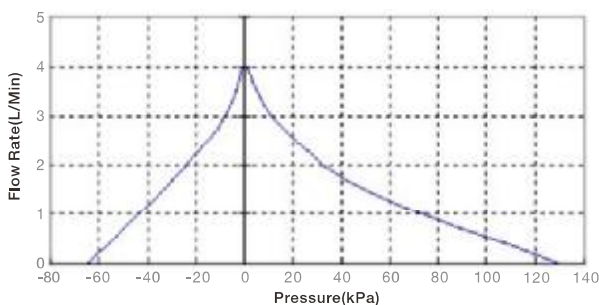
Structure



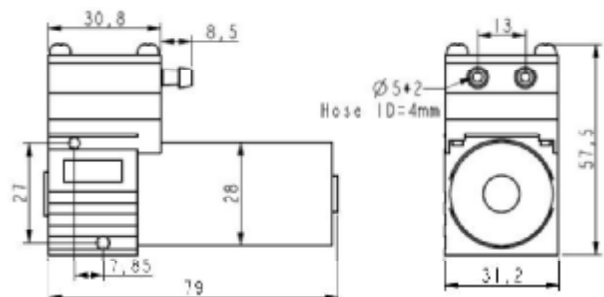
Specification

Model	Pressure Pump (Item Number)	Vacuum Pump (Item Number)	Rated Voltage (VDC)	No-load Current (A)	Max Pressure (Kpa)	Max Vacuum (Kpa)	Max Flow (L/min)	Motor Type	Lifetime (Hours)
TM30B-D	TM30B-D12-P13004	TM30B-D12-V6504	12	0.24	130	-65	4	BLDC	15,000
	TM30B-D24-P13004	TM30B-D24-V6504	24	0.15	130	-65	4	BLDC	15,000

Curve



Dimension (mm)



TM30B-H

Micro Diaphragm Pump

TM30B-H



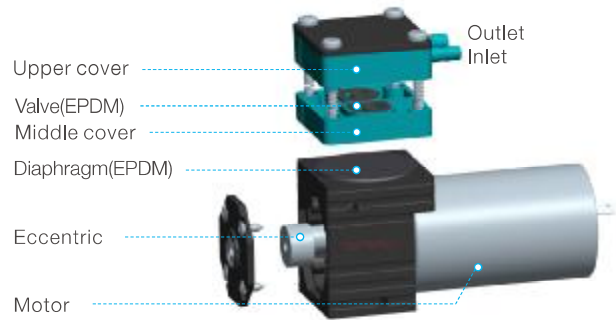
Typical Applications

- Industrial pressure and vacuum applications
- Portable analytical instruments
- Medical diagnostic equipment
- Ozone equipment
- Air quality sampling monitors
- Respiration monitors
- Lab equipment
- Gas or odor leak detectors
- Ink-jet printer

Features

- Highest performance/size ratio
- Low noise and vibration
- Long service life
- Compact and robust design
- Uncontaminated transfer
- High level of gas tightness
- Extreme chemical resistance
- Customizing available
- Can be mounted in any plane

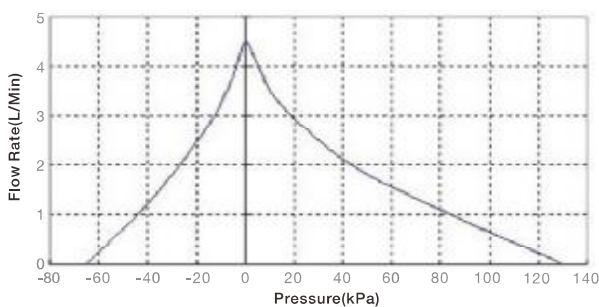
Structure



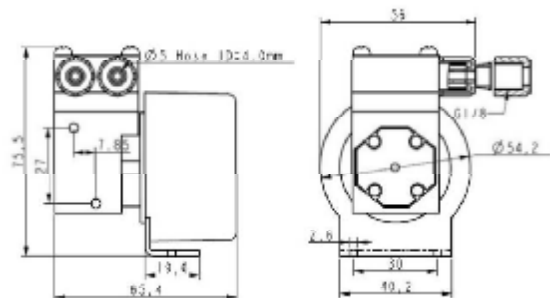
Specification

Model	Pressure Pump (Item Number)	Vacuum Pump (Item Number)	Rated Voltage (VDC)	No-load Current (A)	Max Pressure (Kpa)	Max Vacuum (Kpa)	Max Flow (L/min)	Motor Type	Lifetime (Hours)
TM30B-H	TM30B-H12-P13004	TM30B-H12-V6504	12	0.2	130	-65	4.5	BLDC	10,000
	TM30B-H24-P13004	TM30B-H24-V6504	24	0.2	130	-65	4.5	BLDC	10,000

Curve



Dimension (mm)



TM40A-A

Micro Diaphragm Pump

TM40A-A



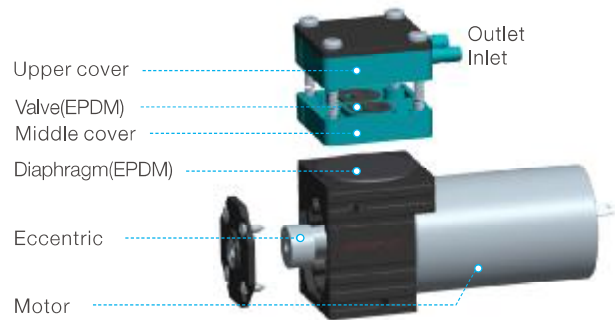
Typical Applications

- Industrial pressure and vacuum applications
- Medical technology
- Inkjet printing
- Laboratory technology
- Analytical engineering
- Air Quality Monitors, Sampling Systems
- Pick & Place Devices

Features

- Highest performance/size ratio
- Low noise and vibration
- Excellent reliability & durability
- Compact and robust design
- Uncontaminated transfer
- High level of gas tightness
- Can operate in any installed position

Structure



Specification

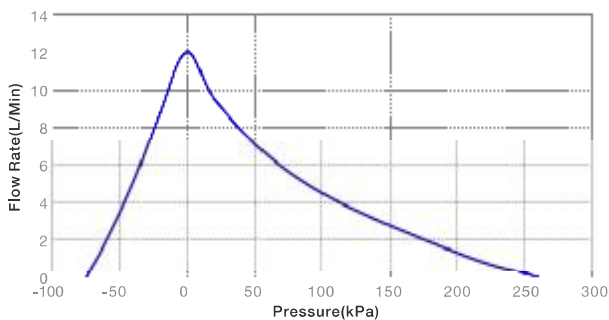
Model	Pressure Pump (Item Number)	Vacuum Pump (Item Number)	Rated Volatage (VDC)	No-load Current (A)	Max Pressure (Kpa)	Max Vacuum (Kpa)	Max Flow (L/min)	Motor Type	Lifetime (Hours)
TM40A-A	TM40A-A12-P23012	TM40A-A12-V7512	12	1.0	260	-75	12	Brush Motor	3,000
	TM40A-A24-P23012	TM40A-A24-V7512	24	0,5	260	-75	12	Brush Motor	3,000

Application Conditions:

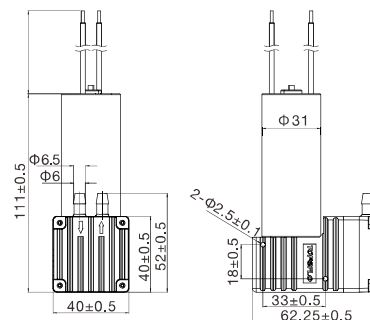
• Medium temperature: 5°C~60°C

• Ambient temperature: -20°C~60°C

Curve



Dimension (mm)



TM40A-B

Micro Diaphragm Pump

TM40A-B



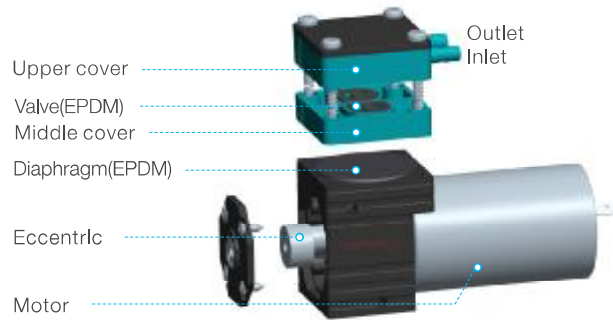
Typical Applications

- Industrial pressure and vacuum applications
- Medical technology
- Inkjet printing
- Laboratory technology
- Analytical engineering
- Cleaning industry

Features

- Highest performance/size ratio
- Low noise and vibration
- Lasts reliably longer
- Compact and robust design
- Uncontaminated transfer
- High level of gas tightness
- Extreme chemical resistance
- Customizing available
- Can operate in any installed position

Structure



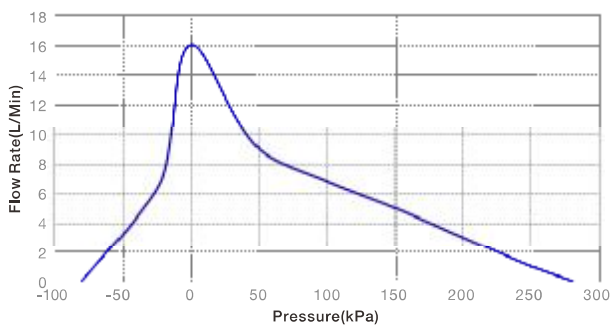
Specification

Model	Pressure Pump (Item Number)	Vacuum Pump (Item Number)	Rated Volatage (VDC)	No-load Current (A)	Max Pressure (Kpa)	Max Vacuum (Kpa)	Max Flow (L/min)	Motor Type	Lifetime (Hours)
TM40A-B01	TM40A-B01-12-P25011	TM40-A-B01-12-V8011	12	0.7	250	-80	11	Brush Motor	1,000
TM40A-B02	TM40A-B02-12-P28016	TM40-A-B02-12-V8016	12	1.2	280	-80	16	Brush Motor	1,000

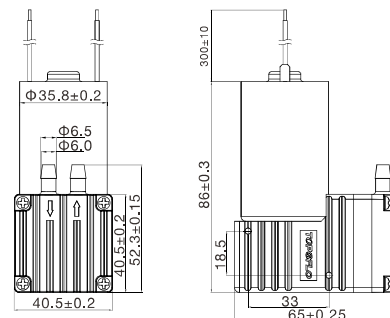
Application Conditions:
• Medium temperature: 5°C~60°C

• Ambient temperature: -20°C~60°C

Curve



Dimension (mm)



TM40A-C Micro Diaphragm Pump

TM40A-C



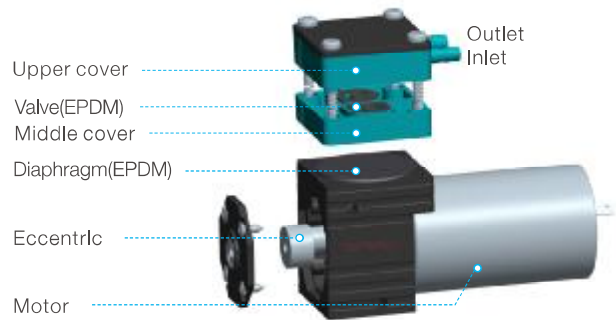
Typical Applications

- Industrial pressure and vacuum applications
- Medical technology
- Inkjet printing
- Laboratory technology
- Analytical engineering
- Cleaning industry

Features

- Highest performance/size ratio
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- Can operate in any installed position

Structure



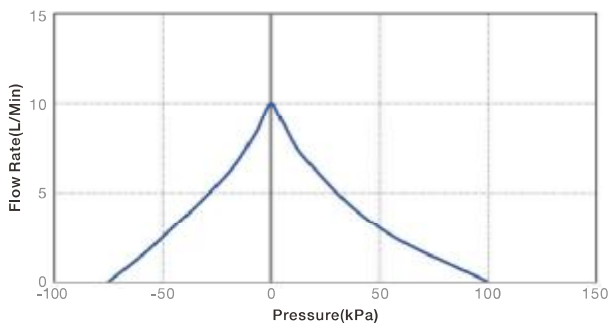
Specification

Model	Pressure Pump (Item Number)	Vacuum Pump (Item Number)	Rated Volatage (VDC)	No-load Current (A)	Max Pressure (Kpa)	Max Vacuum (Kpa)	Max Flow (L/min)	Motor Type	Lifetime (Hours)
TM40A-C	TM40A-C12-P10010	TM40A-C12-V7510	12	0,8	100	-75	10	Brushless Motor	15,000
	TM40A-C24-P10010	TM40A-C24-V7510	24	0,6	100	-75	10	Brushless Motor	15,000

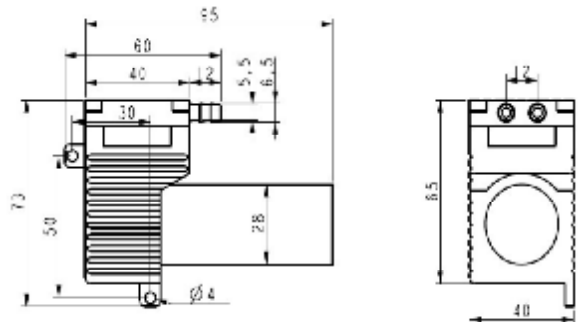
Application Conditions:
• Medium temperature: 5°C~60°C

• Ambient temperature: -20°C~60°C

Curve



Dimension (mm)



TM40A-E

Micro Diaphragm Pump

TM40A-E



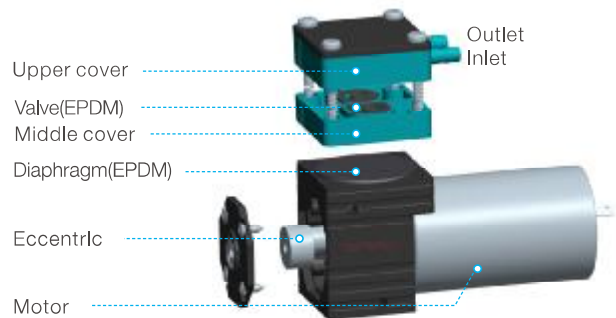
Typical Applications

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- Medical technology
- Inkjet printing
- Laboratory technology
- Analytical engineering
- Cleaning industry

Features

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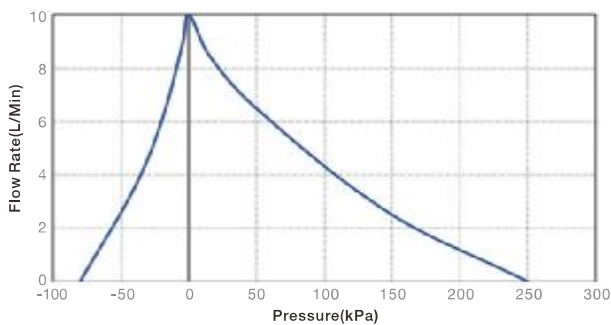
Structure



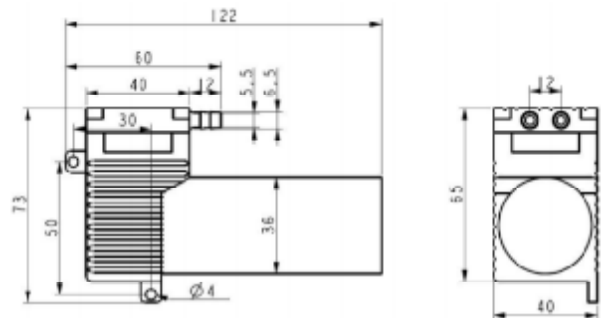
Specification

Model	Pressure Pump (Item Number)	Vacuum Pump (Item Number)	Rated Volatage (VDC)	No-load Current (A)	Max Pressure (Kpa)	Max Vacuum (Kpa)	Max Flow (L/min)	Motor Type	Lifetime (Hours)
TM40A-E	TM40A-E12-P25010	TM40A-E12-V8010	12	0.6	250	-80	10	Brushless Motor	15,000
	TM40A-E24-P25010	TM40A-E24-V8010	24	0.6	250	-80	10	Brushless Motor	15,000

Curve



Dimension (mm)



TM40A-F Micro Diaphragm Pump

TM40A-F



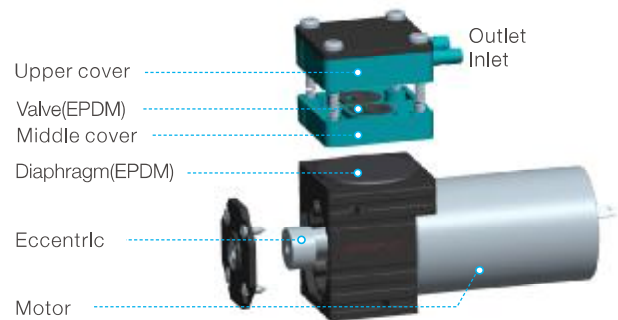
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- Laboratory technology
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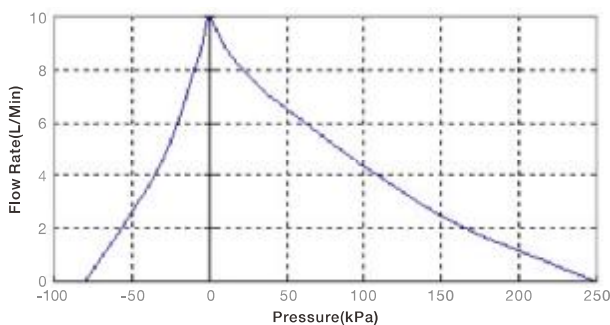
Structure



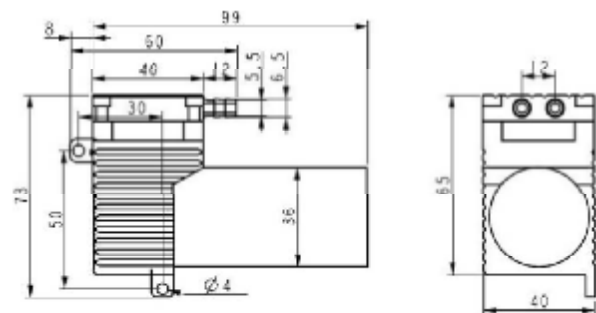
Specification

Model	Pressure Pump (Item Number)	Vacuum Pump (Item Number)	Rated Voltage (VDC)	No-load Current (A)	Max Pressure (Kpa)	Max Vacuum (Kpa)	Max Flow (L/min)	Motor Type	Lifetime (Hours)
TM40A-F	TM40A-F12-P25010	TM40A-F12-V8010	12	0.6	250	-80	10	Brushless Motor	15,000
	TM40A-F24-P25010	TM40A-F24-V8010	24	0.6	250	-80	10	Brushless Motor	15,000

Curve



Dimension (mm)



TMD40A-A

Micro Diaphragm Pump

TMD40A-A



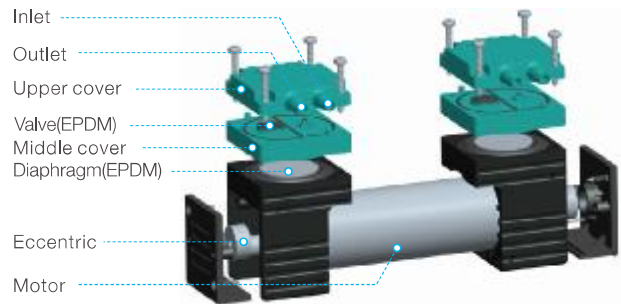
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- Can be mounted in any plane

Structure



Specification

Model	Pressure Pump (Item Number)	Vacuum Pump (Item Number)	Rated Volatage (VDC)	No-load Current (A)	Parallel Connection			Serial Connection	
					Pressure (Kpa)	Vacuum (Kpa)	Flow (L/min)	Vacuum (Kpa)	Flow (L/min)
TMD40A-A	TMD40A-A12-P22017	TMD40A-A12-V7517/V9512	12	1.7	220	-75	17	-95	12
	TMD40A-A24-P22017	TMD40A-A24-V7517/V9512	24	1.0	220	-75	17	-95	12

Motor Type: Brush Motor Lifetime (Hours): 3,000

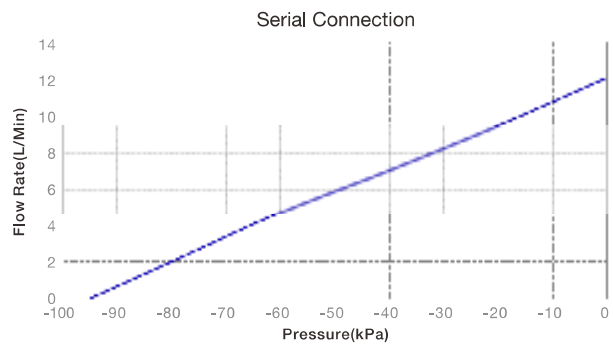
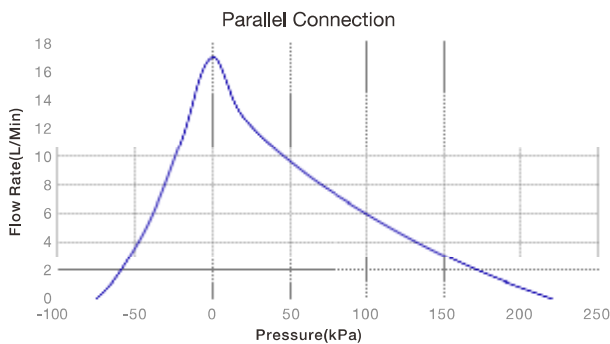
Application Conditions:

• Medium temperature: 5°C~60°C

• Ambient temperature: -20°C~60°C

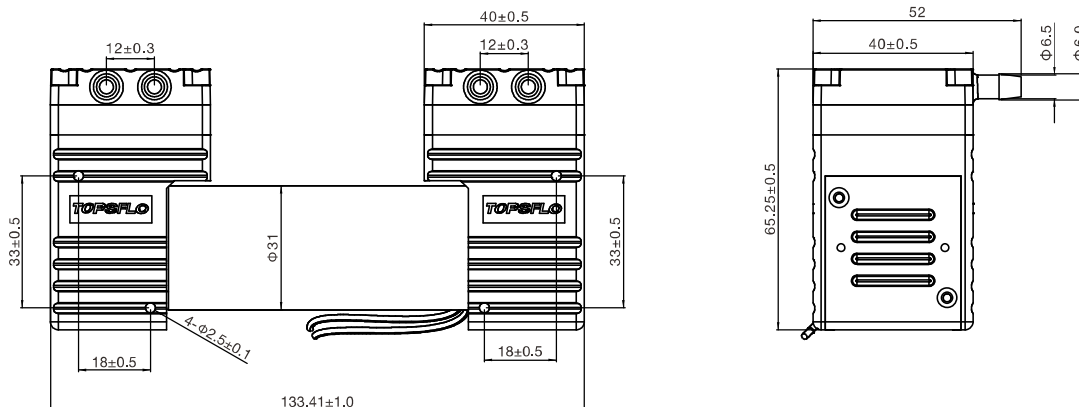
• Humidity: 60%RH

Curve

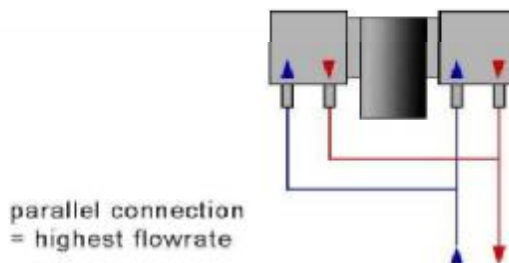
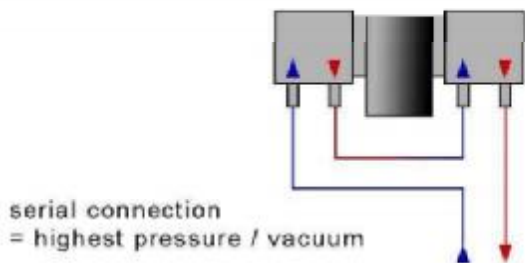


TMD40A-A Micro Diaphragm Pump

Dimension (mm)



Serial Connection and Parallel Connection



TMD40A-F

Micro Diaphragm Pump



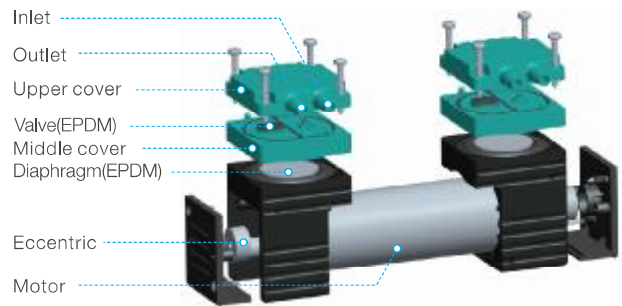
Typical Applications

- Industrial pressure and vacuum applications
- Medical technology
- Inkjet printing
- Laboratory technology
- Analytical engineering
- Cleaning industry

Features

- Highest performance/size ratio
- Low noise and vibration
- Lasts reliably longer
- Compact and robust design
- Uncontaminated transfer
- High level of gas tightness
- Extreme chemical resistance
- Customizing available
- Can operate in any installed position

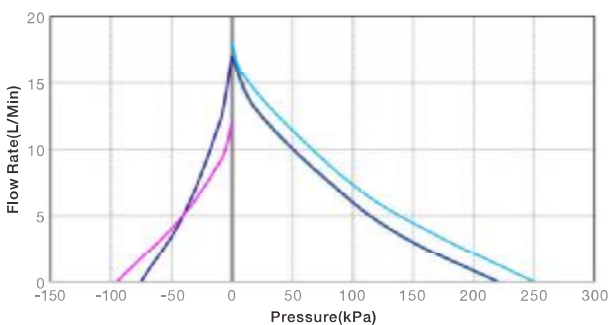
Structure



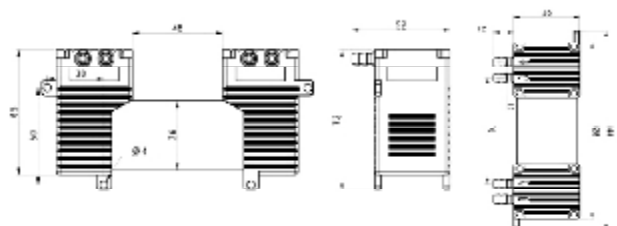
Specification

Model	Pressure Pump (Item Number)	Vacuum Pump (Item Number)	Rated Volatage (VDC)	No-load Current (A)	Max Pressure (Kpa)	Max Vacuum (Kpa)	Max Flow (L/min)	Motor Type	Lifetime (Hours)
TMD40A-F	TMD40A-F12-P22017 (outside controller) in parallel double outputs		12 / 24	1.8	220		17	Brushless Motor	15,000
		TMD40A-F12-V7517 (outside controller) in parallel double outputs	12 / 24	1.8	250	-75	17	Brushless Motor	15,000
		TMD40A-F12-V9512 (outside controller) in series single output	12 / 24	1.8	250	-95	12	Brushless Motor	15,000

Curve



Dimension (mm)



TMD45A-A

Micro Diaphragm Pump

TMD45A-A



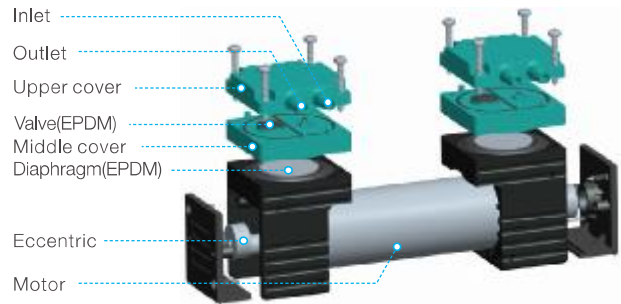
Typical Applications

- Industrial pressure and vacuum applications
- Medical technology
- Inkjet printing
- Laboratory technology
- Analytical engineering
- Cleaning industry

Features

- Highest performance/size ratio
- Low noise and vibration
- Lasts reliably longer
- Compact and robust design
- Uncontaminated transfer
- High level of gas tightness
- Extreme chemical resistance
- Customizing available
- Can operate in any installed position

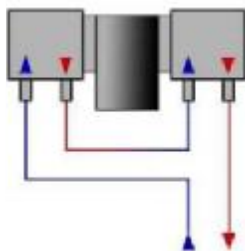
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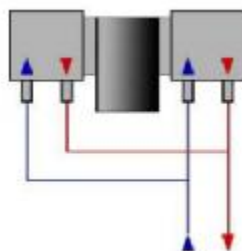
Specification

Model	Pressure Pump (Item Number)	Vacuum Pump (Item Number)	Rated Volatage (VDC)	No-load Current (A)	Max Pressure (Kpa)	Max Vacuum (Kpa)	Max Flow (L/min)	Motor Type	Lifetime (Hours)
TMD45A-A	TMD45A-A12-P38017 in parallel		12 / 24	1.8	380		17	Brush Motor	3,000
		TMD45A-A12-V9812 in series	12 / 24	0.8		-98	12	Brush Motor	3,000
		TMD45A-A12-V8517 in parallel	12 / 24	0.6		-85	17	Brush Motor	3,000

Serial Connection and Parallel Connection



serial connection
=highest pressure / vacuum



parallel connection
=highest flowrate

Dimension (mm)

