

DC diaphragm pump DPA0105-X1 12V, 2.8 l/min - Nitto Kohki 191115352

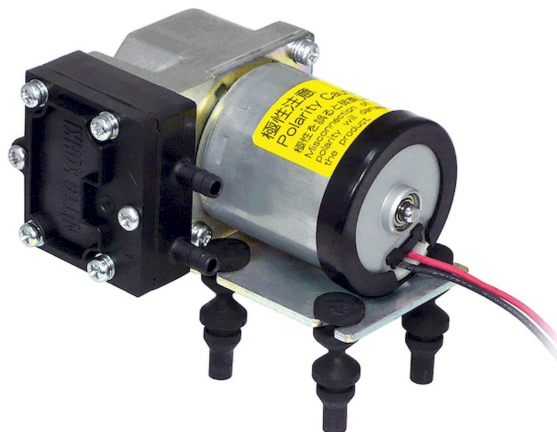
Item no. NHK-191115352

Manufacturer Nitto Kohki

DC diaphragm pumps for air, built for 12 V or 24 V supplies. Depending on the model they provide pressure up to 2.5 bar or vacuum down to -666 mbar, with free air displacement between 2.5 and 10 l/min. Small mounting dimensions and a weight below 0.4 kg allow installation inside instruments and mobile assemblies. Model DPA0105-X1 12V, 2.8 l/min.

TECHNICAL DATA

 Betriebsdruck max [bar] **2.200000**

 Weight **0.3 kg**


DESCRIPTION

When a device has to move air or draw a vacuum and only a DC supply is available, this range covers both duties in a single unit. The pumps run on 12 V or 24 V and deliver up to 2.5 bar of pressure or down to -666 mbar of vacuum, depending on the model.

- Pressure and vacuum from one unit, as each model is rated for both a maximum pressure and an attainable vacuum.
- Runs straight off a 12 V or 24 V supply with no separate power unit, current draw stays at 1.2 A or below.
- The diaphragm separates the drive from the pumping chamber, so the air passes through the pump without oil.
- Most models are rated for continuous duty, with quoted service life of up to 5,000 hours.
- Mounting footprints from 32 x 32.5 mm and a weight below 0.4 kg suit compact and portable equipment.
- Straight nipples from 3 to 6.8 mm O.D. connect tubing directly, without adapters.

TECHNICAL DATA

Model	DPA0105-X1 12V
Attainable Vacuum	n/a
Free Air Displacement	2.8 l/min

Rated Voltage	12 V (X1) 24 V (Y1)
Maximum Pressure	2.2 bar
Maximum Current	1.2 A 0.6 A
Duty Cycle	Continuous
Life Expectancy	5.000 h
Outlet (Inlet)	5mm O.D. straight nipple
Coil Insulation Class	E or its equivalent (JETL)
Mounting Dimensions (L x W)	32 x 27.5 mm
Gross Weight	0.3 kg
Article number	191115352

APPLICATIONS

- Gas transfer and sampling in measuring instruments
- Vacuum grippers and pick-up of small parts in assembly
- Battery powered and mobile equipment on a 12 V or 24 V supply
- Pressure and vacuum generation in test and leak detection rigs
- Aeration and circulation in laboratory set-ups

OPERATING PRINCIPLE

An eccentric drives the diaphragm while inlet and outlet valves open in turn for the intake and discharge strokes. The diaphragm keeps the drive apart from the pumping chamber, so the medium never touches the motor.

STANDARDS AND COMPLIANCE

Coil insulation is rated class A, B or E to JETL, depending on the model.