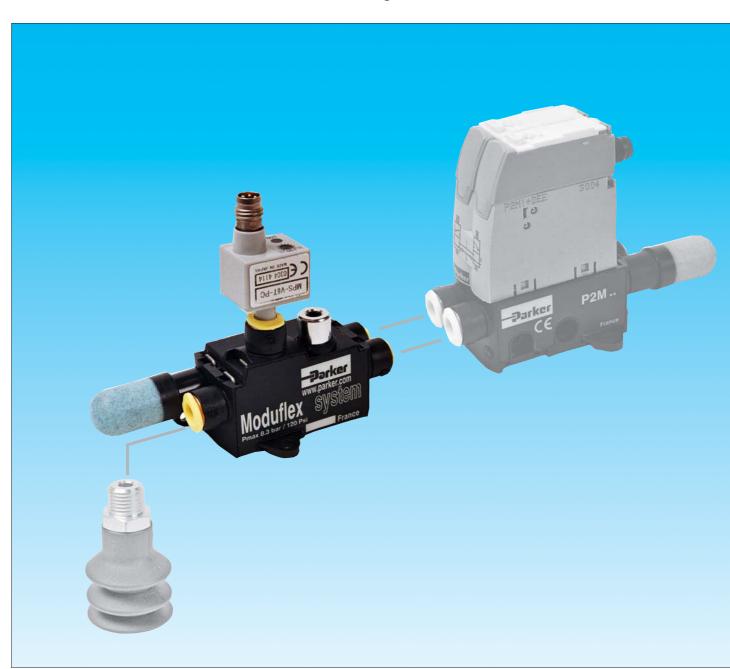


Vacuum technology

Moduflex vacuum generator Peripheral module

Catalogue PDE2548SLUK-ev



Moduflex vacuum generator

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WARNING

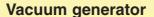
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Vacuum 90%

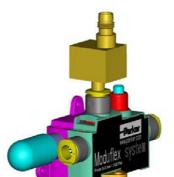
Vacuum flow 25 NI/min

Optional vacuum sensor

Digital output Analog output

Exhaust

With optional silencers or Ø 6 mm tube



Blow-off

Internal and/or external Adjustment by screw

Flexibility

Direct mounting on valve island or in-line

Compact and light weight

Compact design Light weight

Generic Industries



The modular Vacuum Generator from the MODUFLEX family can be used in many different industrial applications for picking up all kinds of products for transportation quickly and precisely.

Automation



With its integrated blowoff function, the Moduflex Vacuum Generator provides the necessary vacuum and breaks it automatically at the end of the Pick and Place automated process.

Printing and replication



In picking up paper or foils, transporting CD's and DVD's, the new Moduflex Vacuum Generator shows its flexibility and performance mounted on the island or in-line with the suction cups.

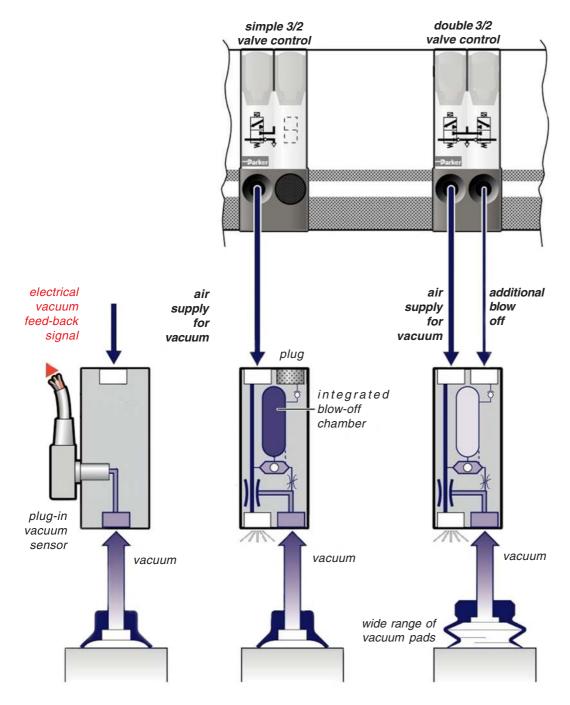
Packaging



For opening boxes, inserting products in the boxes and transporting the boxes, the new Moduflex Vacuum Generator is an ideal unit to mount close to the suction cups on the robot system.



Vacuum technology





A multi-mounting module

As with all other Moduflex peripheral modules, this vacuum generator may be either positioned remotely from the control valve or directly onto the valve island.

- A) Remote positioning with cup directly mounted on the generator for high response.
- B) Centralised control with the generator on the island for space minimising at point of suction for agressive environments.
- C) In-line mounting with cup position remote in accordance with machine structure for easy access.

This Moduflex valve can be electrically or pneumatically actua-

A multi-purpose module

Depending on the application requirements, this vacuum generator module may be controlled by a single or by a double 3/2 Moduflex valve module.

A Ø6 mm port is available for an optional plug-in vacuum sensor for delivering an electrical vacuum feed-back signal.

Single 3/2 valve control

The 3/2 valve delivers the air supply to generate vacuum through the venturi. It also pressurizes the integrated blow-off chamber.

When the 3/2 valve cuts-off the air supply, this chamber is automatically exhausted into the vacuum channel in order to speed-up the part release.

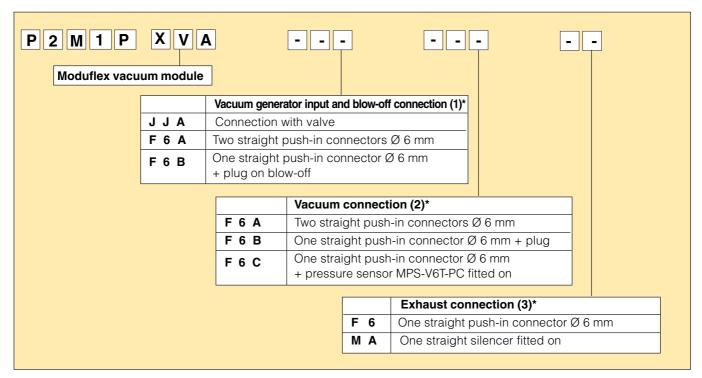
Double 3/2 valve control

One 3/2 valve controls air supply for vacuum. The other 3/2 valve will generate an additional blow-off that may proove necessary to obtain quick part release from large vacuum pads.

The effect of the blow-off can be controlled with an adjustable screw.



Order codes



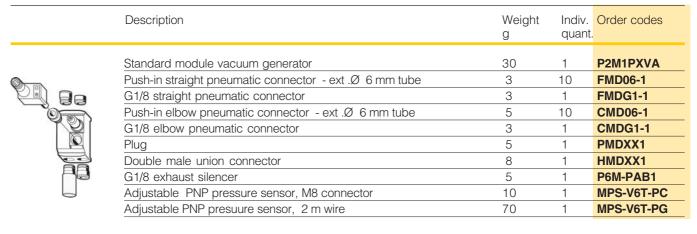
^{*} See vacuum generator connection drawing page 6.

Complete vacuum modules and stand-alone valves combination

		Vacuum connect.	Vacuum module with silencer	3/2 valve electricallly actuated	3/2 valve pneu. actuated	
On valve	external	2	P2M1PXVAJJAF6AMA	P2M1SDEE2CV2C	P2M1SDPPC	
On valve	internal	2	P2M1PXVAJJAF6AMA	P2M1S3ES2CV2C	P2M1S3PSC	
On valve	external	1	P2M1PXVAJJAF6BMA	P2M1SDEE2CV2C	P2M1SDPPC	
On valve	internal	1	P2M1PXVAJJAF6BMA	P2M1S3ES2CV2C	P2M1S3PSC	
In-line	external	2	P2M1PXVAF6AF6AMA	P2M1SDEE2CV2CF6	P2M1SDPPCF6	
In-line	external	1	P2M1PXVAF6AF6BMA	P2M1SDEE2CV2CF6	P2M1SDPPCF6	
In-line	internal	2	P2M1PXVAF6BF6AMA	P2M1S3ES2CV2CF6	P2M1S3PSCF6	
In-line	internal	1	P2M1PXVAF6BF6BMA	P2M1S3ES2CV2CF6	P2M1S3PSCF6	

Note: Complete modules are delivered with straight plug-in connectors Ø 6 mm and one silencer fitted on.

Standard modules and accessories





Moduflex vacuum generator

Technical characteristics

Vacuum module

Fluid

Compressed air or inert gas, filtered 40 $\!\mu$ mini., not

lubricated

Working pressure

1 to 8 bar

Working temperature

-15°C to +60°C

Materials

Body: Polyamide 6,6 reinforced fibreglass

Poppet: Nitrile

Nozzle: Brass

Clip connector: Treated steel

Pressure sensor

Fluid

Air or inert gas, filtered 40µ mini., not lubricated

Working temperature

0°C to +50°C

Supply

10,8 to 30 V DC

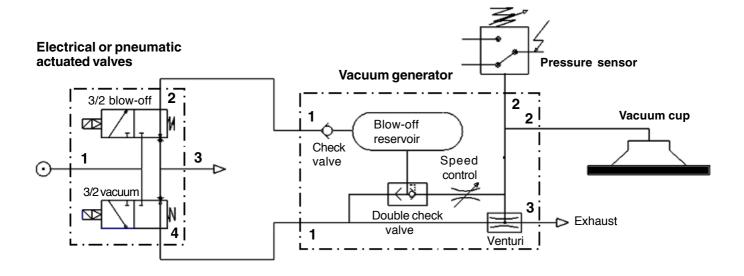
Digital output

PNP 125 mA

Materials

Body: Polycarbonate

Connection drawing





Specific characteristics

Maximum vacuum

Vacuum level: 90% at 6,5 bar

Air consumption

Air consumption: 46 NI/min at 5 bar

Vacuum flow

Flow: 25NI/min at 0 % vacuum and 6,5 bar

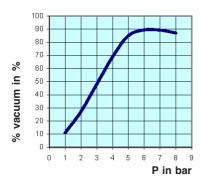
Evacuation time in s/l to reach different vacuum levels % (at P = 6,5 bar)

Vacuum %	0	10	20	30	40	50	60	70	80	90
Time in s	0,0 / 0,0	0,3 / 0,3	0,4 / 0,5	0,8 / 0,9	1,4 / 1,5	2,0 / 2,2	2,7 / 3,2	3,7 / 4,9	5,9 / 9,8	10,7 / -
Flow in NI/min	24,9 / 23,2	22,1 / 20,3	19,3 / 17,3	16,6 / 14,4	13,8 / 11,5	11,0 / 8,5	8,2 / 5,6	5,5 / 2,7	2,7 / 0,0	0,0 / -

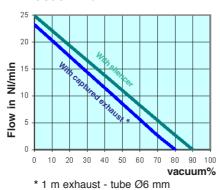
With silencer / With captured exhaust *

Performances

Vacuum level

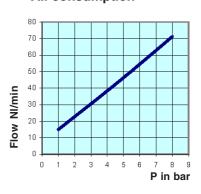


Vacuum flow



* 1 m exhaust - tube Ø6 mm 3 m exhaust - tube Ø8 mm

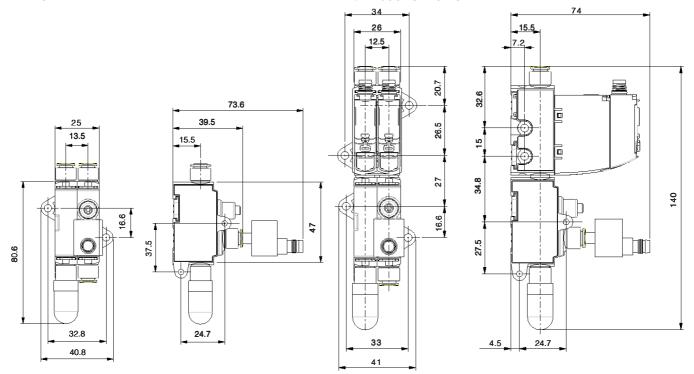
Air consumption



Dimensions

In-line

With Moduflex valve





www.parker.com

Pneumatic Division Sales Offices

Austria - Wr.Neustadt

Tel: +43 2622 23501 Fax: +43 2622 66212

Belgium - Nivelles

Tel: +32 67 280 900 Fax: +32 67 280 999

Czech & Slovak Republics - Klecany

Tel: +420 284 083 111 Fax: +420 284 083 112

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Tel: +30 210 933 6450 Fax: +30 210 933 6451

Hungary - Budapest

Tel: +36 1 220 4155 Fax: +36 1 422 1525

Ireland - Dublin

Tel: +353 1 293 9999 Fax: +353 1 293 9999

Italy - Corsico, Milan

Tel: +39 02 4519 21 Fax: +39 02 4479 340

Netherlands - Oldenzaal

Tel: +31 541 585000 Fax: +31 541 585459 Norway - Langhus

Tel: +47 6491 1000 Fax: +47 6491 1090

Poland - Warsaw

Tel: +48 22 863 49 42 Fax: +48 22 863 49 44

Portugal - Leça da Palmeira

Tel: +351 22 999 7360 Fax: +351 22 996 1527

Romania - Bucharest

Tel: +40 21 252 1382 Fax: +40 21 252 3381

Russia - Moscow

Tel: +7 095 234 0054 Fax: +7 095 234 0528

Slovenia - Novo mesto

Tel: +386 7337 6650 Fax: +386 7337 6651

Spain - Madrid

Tel: +34 91 675 7300 Fax: +34 91 675 7711

Sweden - Spånga

Tel: +46 (0) 8 5979 5000 Fax: +46 (0) 8 5979 5120

Switzerland

Tel: +49 2131 4016-0 Fax: +49 2131 4016-9199

Turkey - Istanbul

Tel: +90 212 482 91 06 Fax: +90 212 482 91 10

UK - Warwick

Tel: +44 1926 317 878 Fax: +44 1926 317 855

Ukraine - Kiev

Tel: + 380 44 220 7432 Fax: + 380 44 220 6534



Parker Hannifin plc

Pneumatic Division, Walkmill Lane, Bridgtown, Cannock, Staffs. WS11 0LR United Kingdom

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