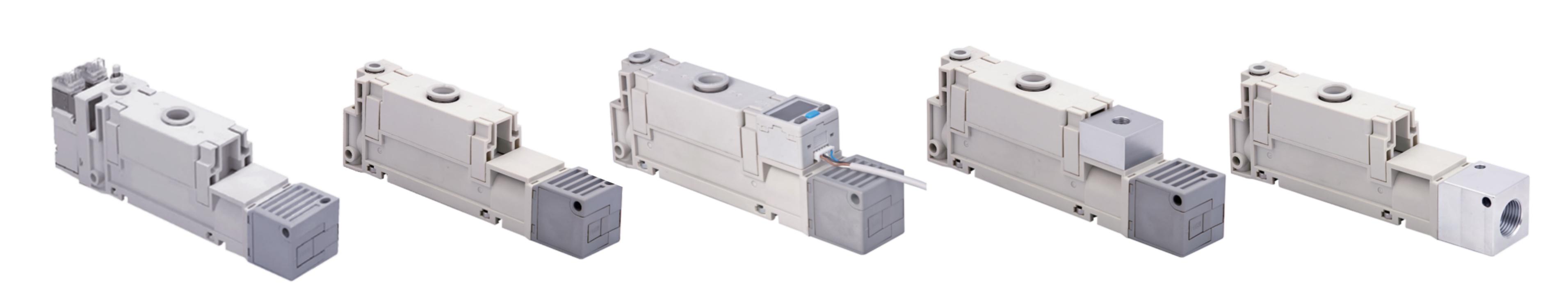


Multistage Vacuum Generator



With Valve

Without Valve

Vacuum Pressure Switch Specifications

With Vacuum pressure Detection Port

Exhaust Port Specifications

O How to Order?

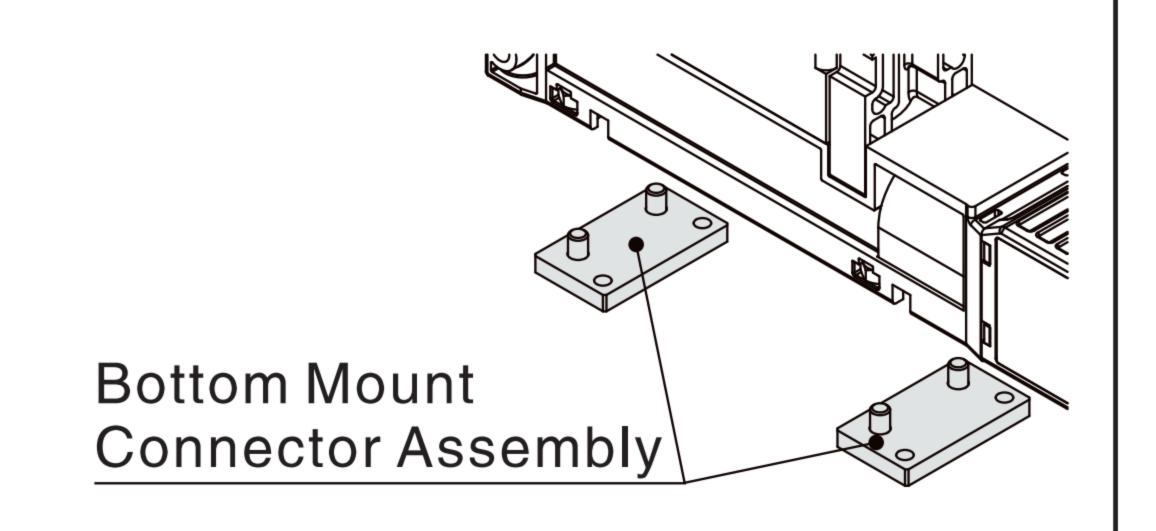
Without Valve

Series NO	Exhaust Type —	Vacuum Pressure Detection part	Output Type	
EZL112A:	No Mark: Muffler exhaust		NOpen collector, 1 Output	Blank:None
Multistage		P:PN	IPOpen collector, 1 Output	B:Bottom mount connector
Vacuum	P:Rc1/2 Exhaust port	A:NF	NOpen collector, 2 Output	assembly (ZL112A-AD1-A)
Generator	PF:G1/2 Exhaust port	B:PN	IPOpen collector, 2 Output	
	PN:1/214NPT Exhaust port			Note:Clearance for Bottom
	Note:Rc1/2 Exhaust port, 1/2–14NPT Exhaust port, are all customized product	Blank:None GN:Vacuum pressure G:Pressure Gauge D:Vacuum Pressure s	detection port:(G1/8) witch	Mounting Screws= 28mm. 2 Painting sets and 4 screws Mounting holes on top and side are interchangeable even without options.

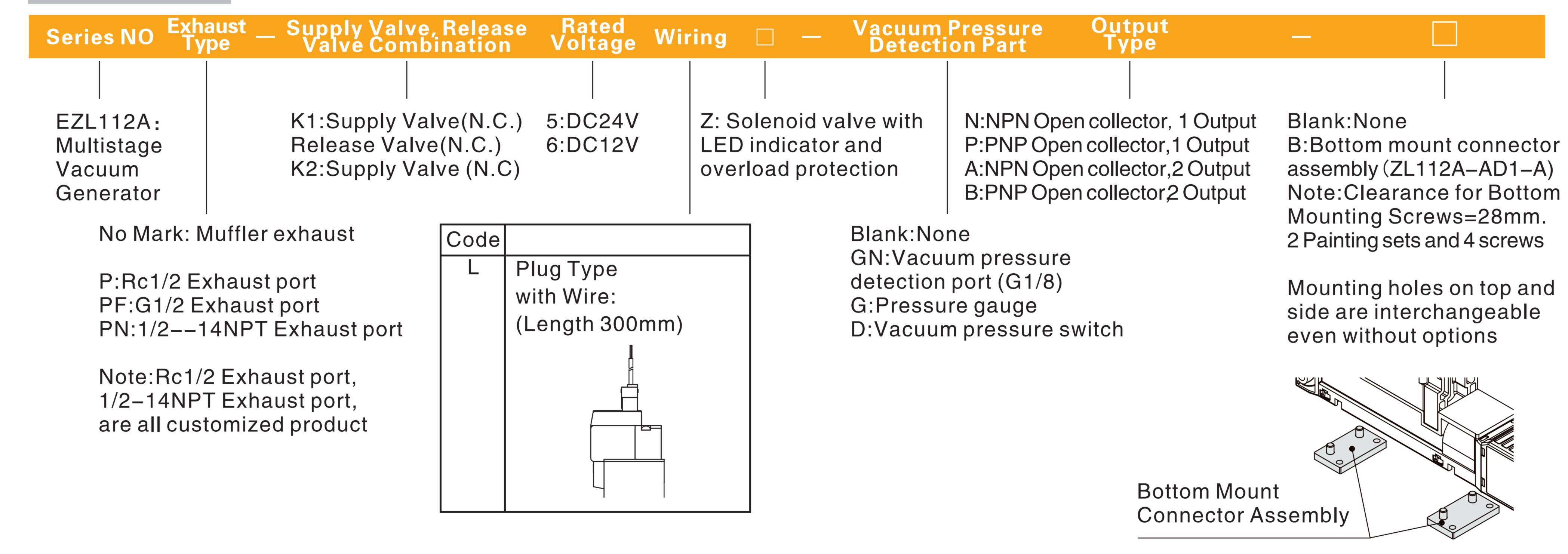
Order Example: ETZL112A Multistage Vacuum Generator, G1/2 Exhaust Port type, vacuum pressure switchNPN open collector: 1 Output Bottom

mount connector assembly (ZL112A-AD1-A),

ERP code is:EZL112APF-DN-B



With Valve

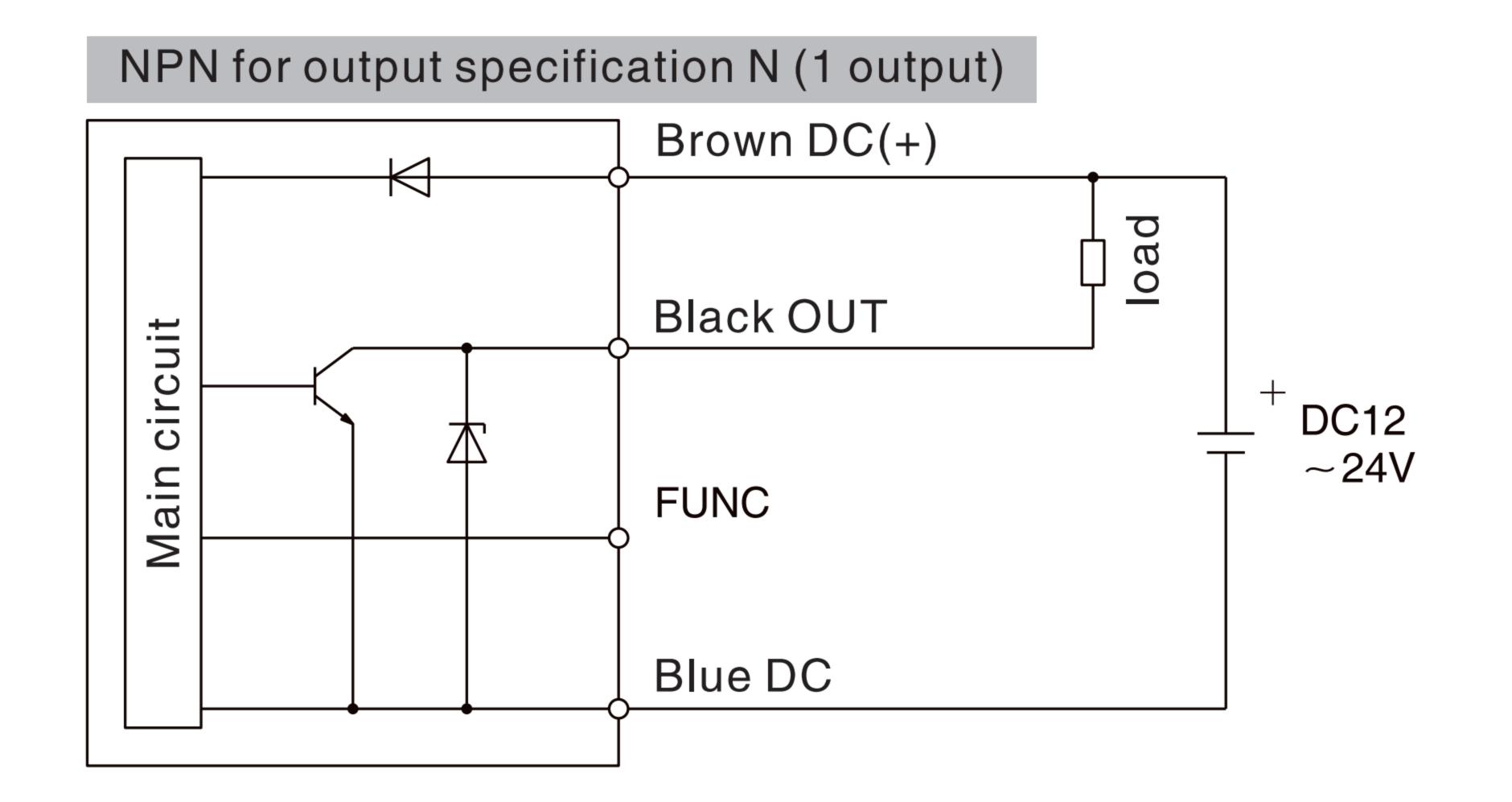


Order Example: ETZL112A Multistage Vacuum Generator, G1/2 Exhaust Port type, Supply Valve (N.C.), Release Valve (N.C.), Rated Voltage DC24V vacuum pressure switch, NPN open collector: 1 Output Bottom mount connector assembly (ZL112A-AD1-A) ERP code is: EZL112APF-K15Z-DN-B

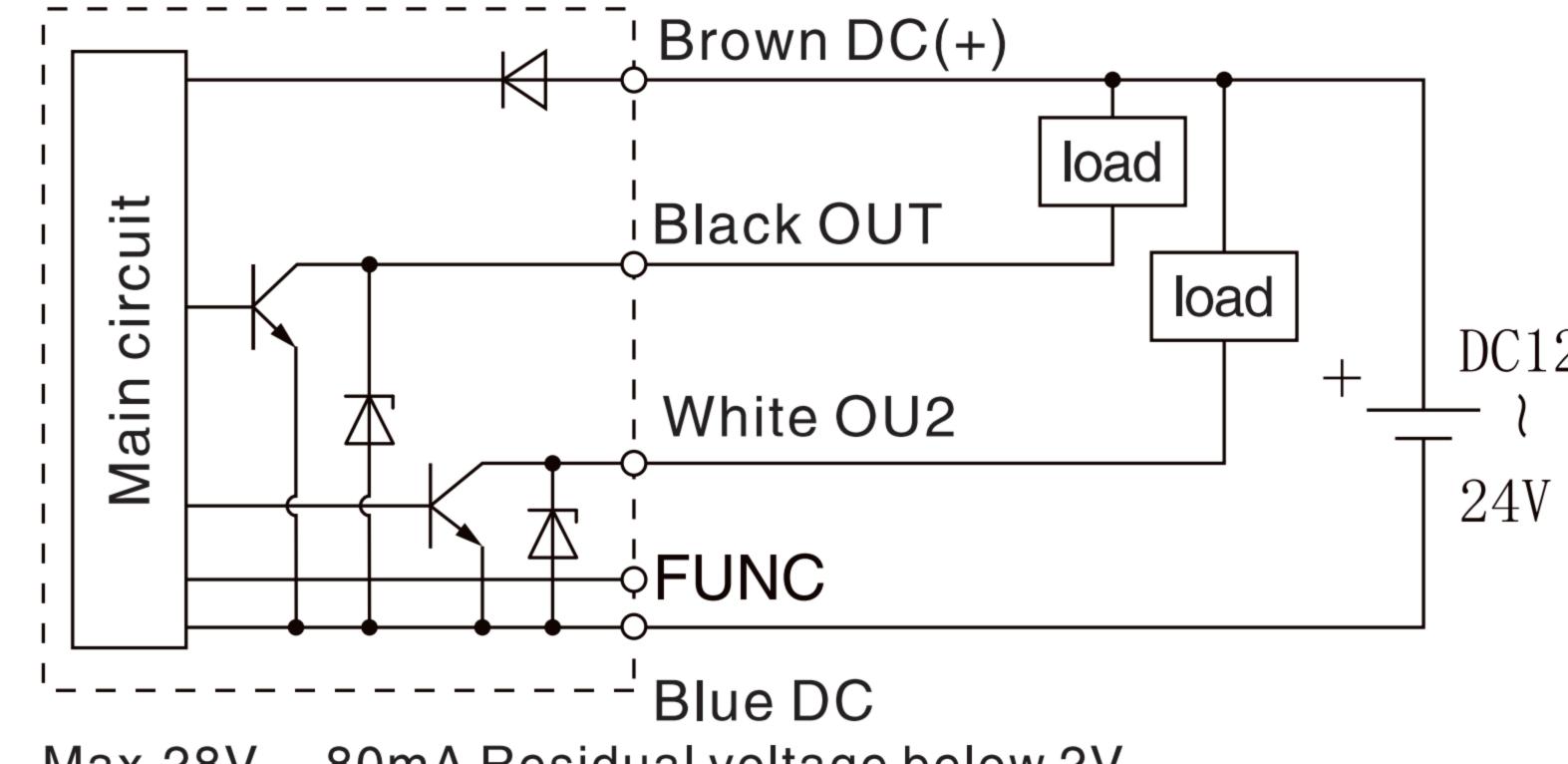
Product Specifications

Model		EZL112A	
Orifice(mm)		1.2	
Supply pressure	e (MPa)	0.45	
Vacuum pressu	re (kPa)	-84	
Suction flow (Ln	nin(ANR))	100	
Air consumption	n (Lmin(ANR)	57	
Supply pressure	e range(MPa)	0.2-0.5	
Working temper	rature (℃)	5-50(No condensation)	
Use fluid		clean air	
Vibration resistance	No pressure switch	30	
$[m/s^2]$	With pressure switch	20	
Shock resistance	No pressure switch	150	
[m/s ²]	With pressure switch	100	
Exhaust noise [dB(A)]	65	

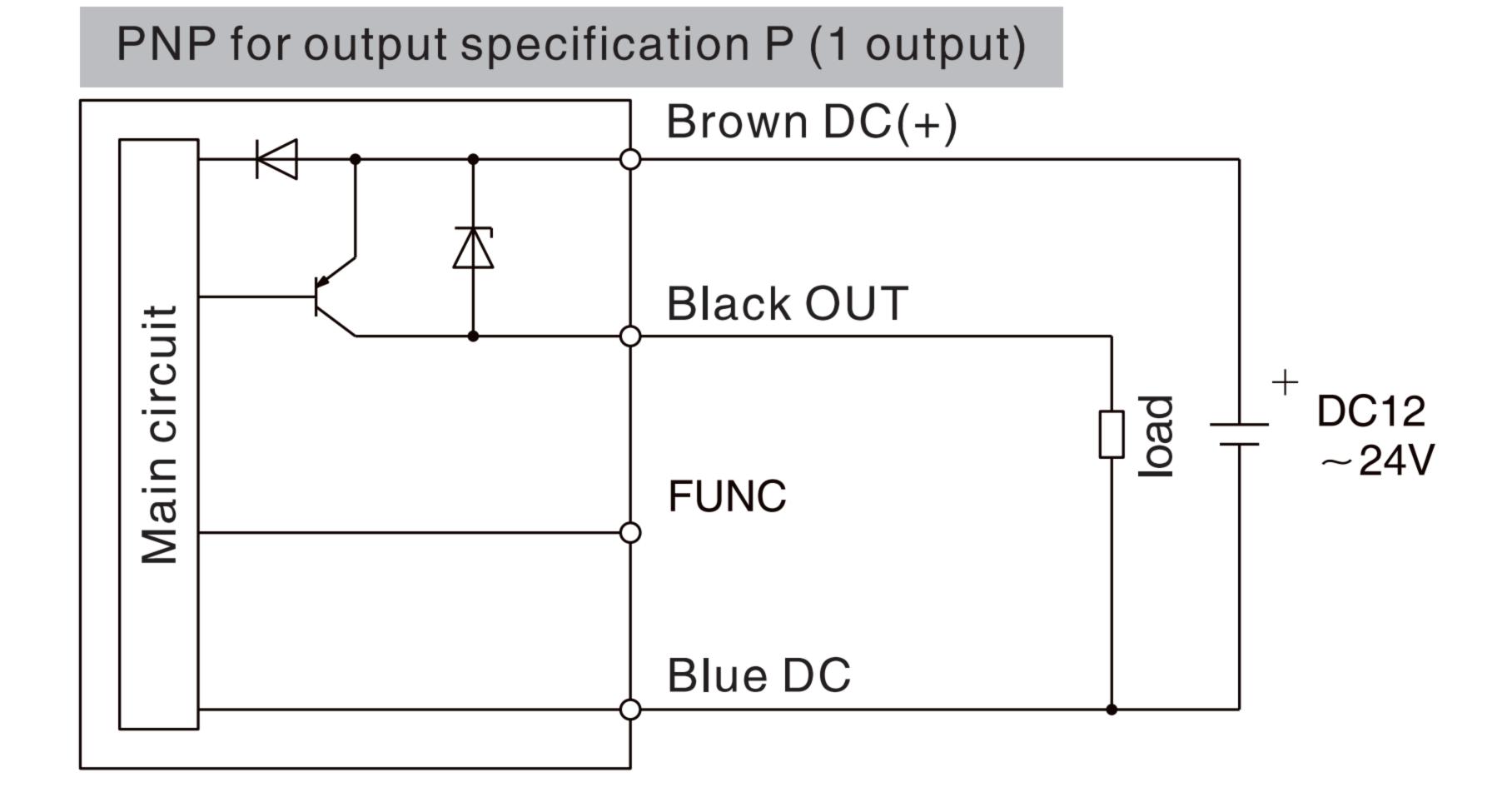
Internal Circuit and Wiring Example of Vacuum Pressure Switch



NPN for output specification A (2 output)

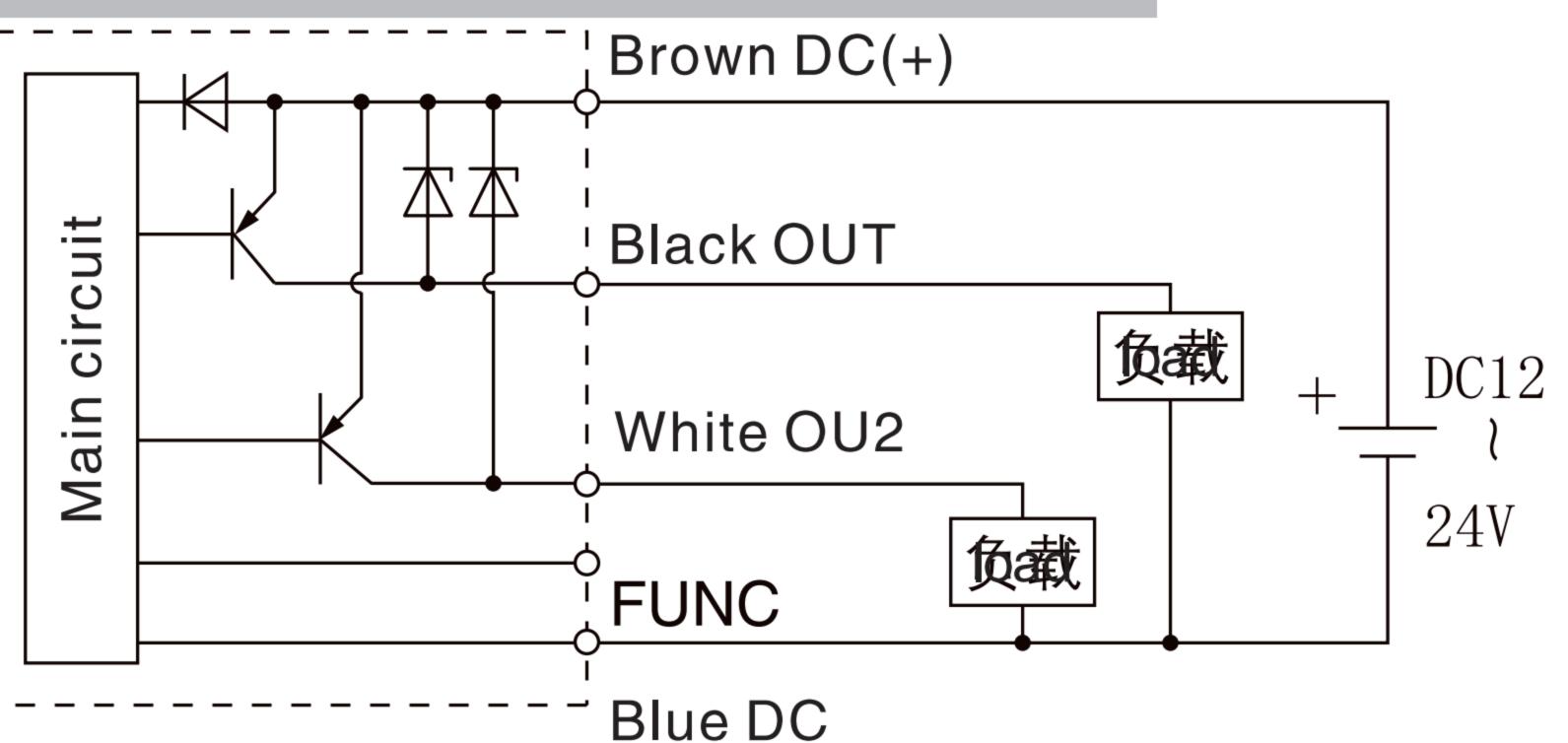


Max.28V, 80mA Residual voltage below 2V

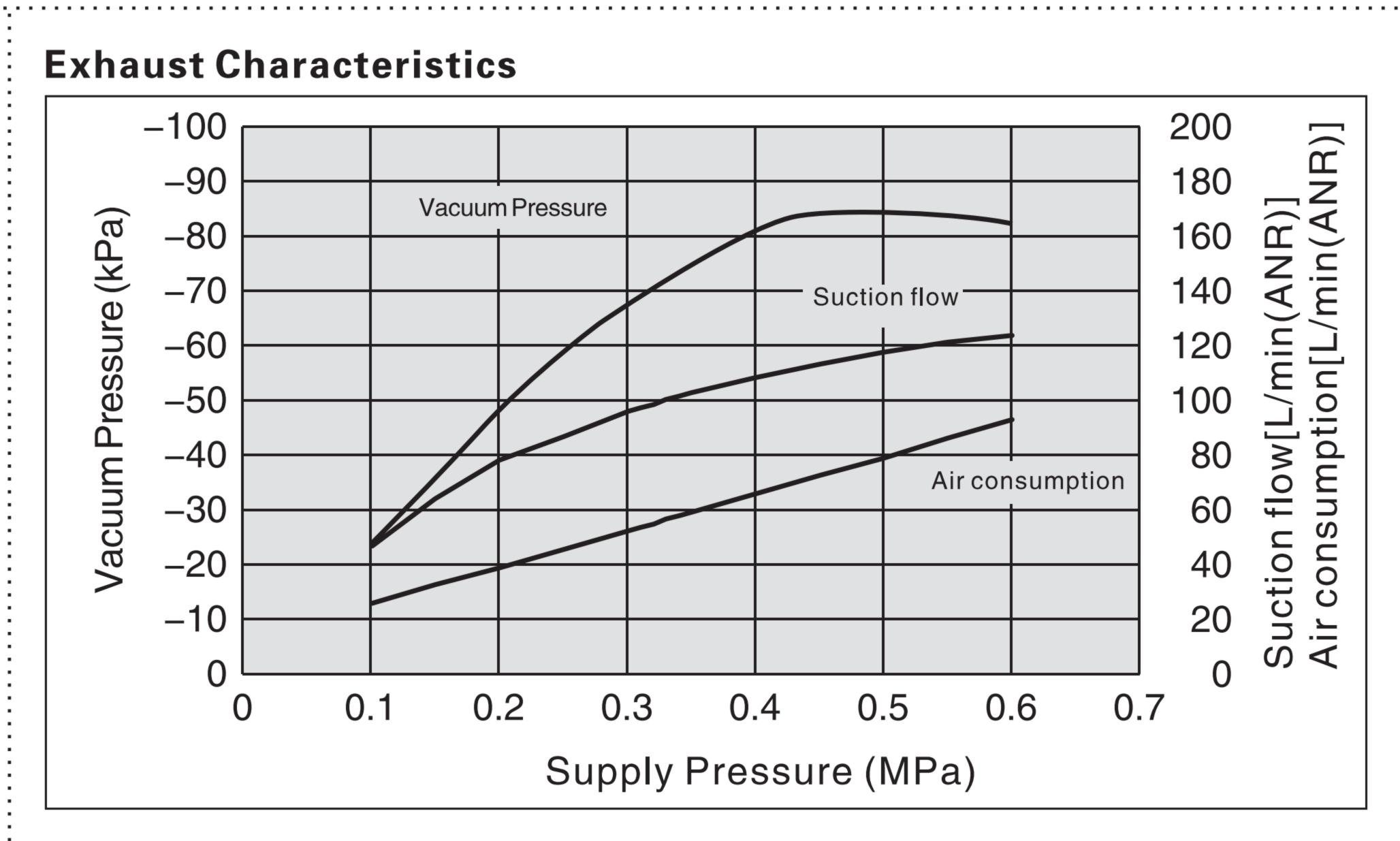


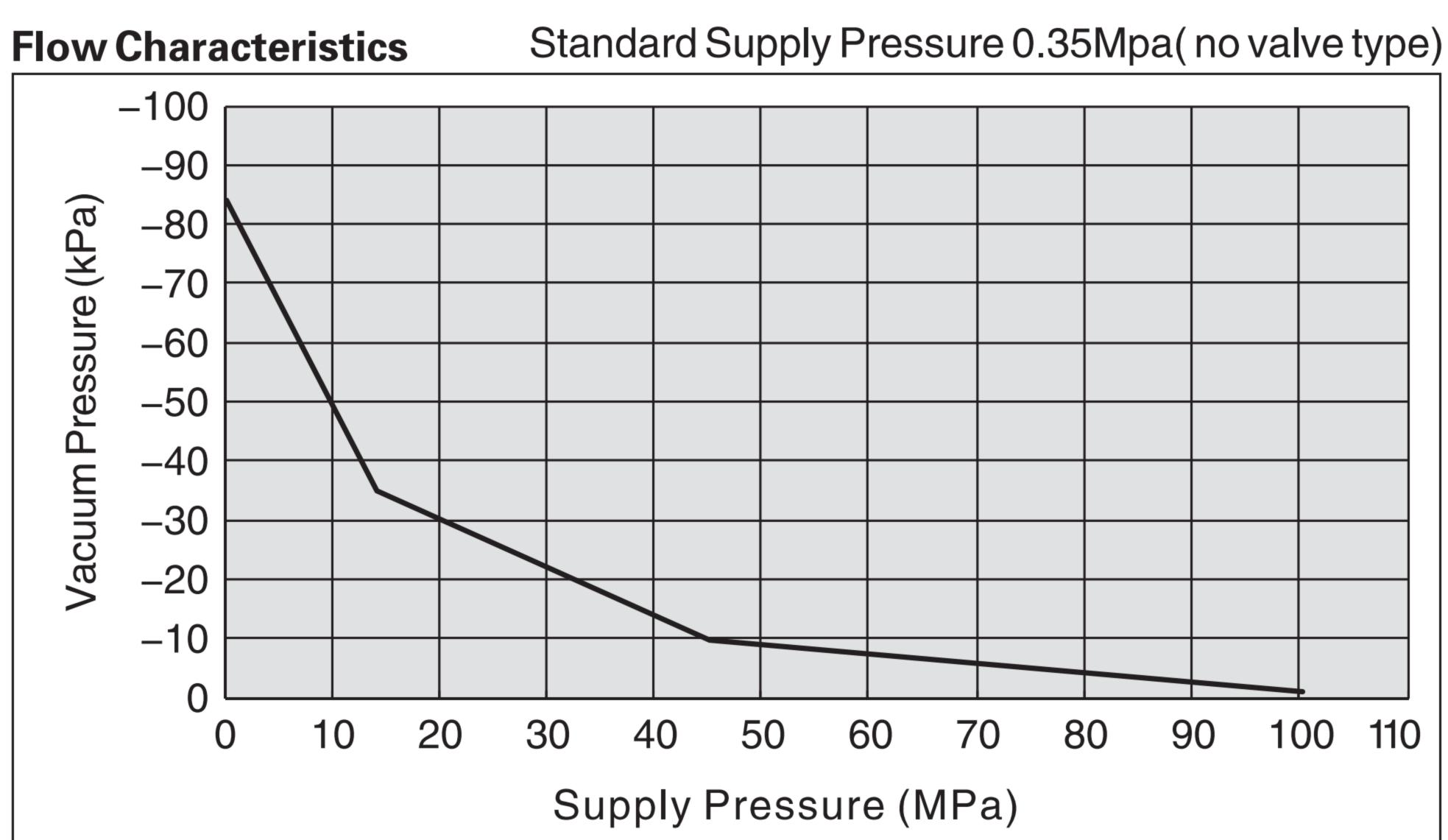
PNP for output specification B (2 output)

Max.28mA, 80mA Residual voltage below 2V

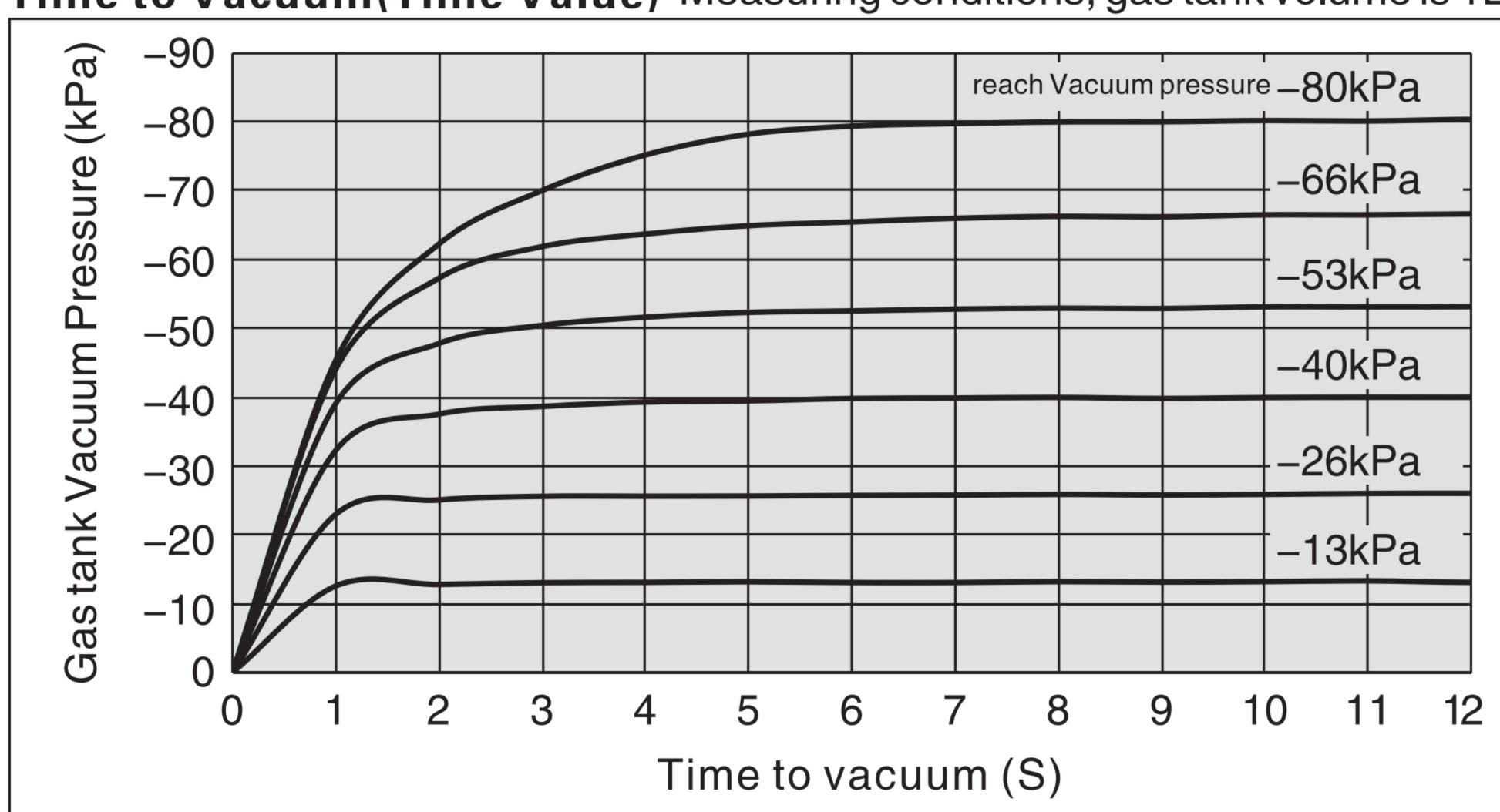


Exhaust characteristics, flow characteristics, time to vacuum (time value)

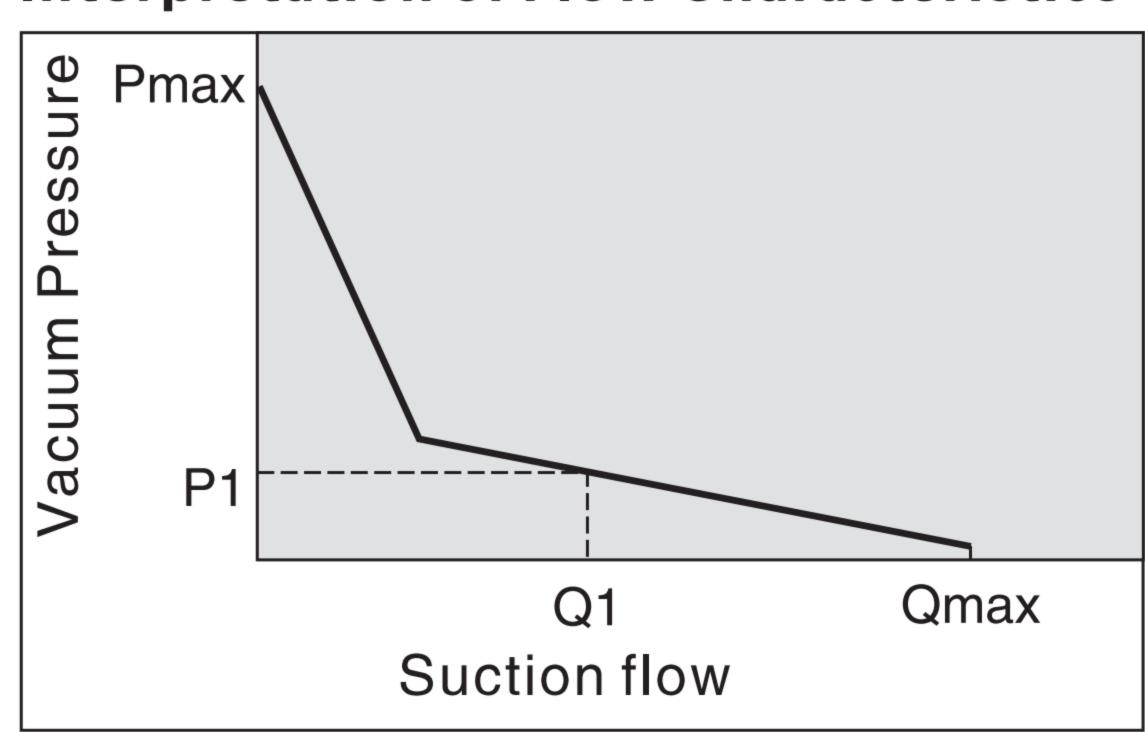




Time to Vacuum (Time Value) Measuring conditions, gas tank volume is 1L



Interpretation of Flow Characteristics



The flow characteristics reflect the relationship between the vacuum degree of the vacuum generator and the suction flow rate. When the suction flow rate changes, the vacuum degree will also change. Generally speaking, it reflects the relationship of the vacuum generator under the standard operating pressure. In the left figure, Pmax represents the maximum vacuum pressure, and Qmax represents the

maximum suction flow. The value used as a specification in samples etc. is this value. Changes in vacuum pressure are described on the right.

- l: After blocking and sealing the suction port of the vacuum generator, the suction flow rate becomes 0 and the vacuum pressure becomes the highest Pmax
- 2: When the suction port is opened and air flows (air leakage), the suction flow rate increases and the vacuum pressure becomes lower. (P1 and Q1)
- 3: After further opening the suction port and fully opening it, the suction flow rate becomes the maximum (Qmax), and the vacuum pressure is almost 0 atmosphere. Similar to situations where the adsorption air permeability is high or the leakage is the highest, the vacuum pressure will hardly become high. It should be noted that

Interpretation of time to reach vacuum

This reflects the time it takes for the gas tank of the sealed container 1L to reach vacuum pressure determined by the adsorption conditions such as the workpiece from atmospheric pressure. In the case of EZL1, it takes about 7.0 seconds to reach the vacuum pressure – 80kPa.



