

AZX Series

AIRBEST

Large Flow Integrated Vacuum Generator



ELECTRONICS



PACKAGING



PLASTIC

Features

- ◇ Energy-efficient nozzle design
- ◇ Integrated with control valve, vacuum gauge and regulating valve
- ◇ Modular design

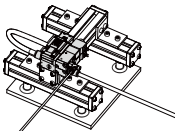
Advantages

- ◇ Large vacuum flow can be produced under the condition of low air consumption
- ◇ Integrated design, saving piping and wiring, controlling setting time, etc.
- ◇ High reliability and stability



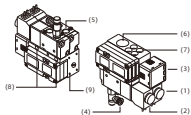
Applications

- ◇ Integrated vacuum generator for handling porous workpieces
- ◇ Vacuum producing and monitoring in automation systems
- ◇ For robot handling applications and linear axes
- ◇ Pick and place applications with very short time
- ◇ Used for systems that require high dynamic handling of workpieces and with limited space



Structure

- ◇ (1) Vacuum supply valve
- ◇ (2) Vacuum release valve
- ◇ (3) Vacuum pressure switch
- ◇ (4) Release port
- ◇ (5) Air supply port
- ◇ (6) Vacuum port
- ◇ (7) Exhaust port
- ◇ (8) Mounting hole
- ◇ (9) Threaded mounting hole



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How to order

AZX 20 - N

① ② ③

① Series	② Specification	③ Vacuum switch
AZX	20	N - 1NPN output+1 analog voltage output (1-5V)
	30	P - 1PNP output+1 analog voltage output (1-5V)

Selection

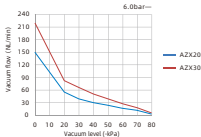
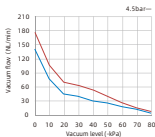
Model/ Vacuum switch	P
AZX20-N	AZX20-P
AZX30-N	AZX30-P

Technical parameters

Model	Air supply pressure range bar	Max. vacuum level -kPa	Max. vacuum flow NL/min	Air consumption NL/min	Noise level dB(A)	Weight g	Recommended hose dia. mm	
							Air supply port P	Vacuum port V
AZX20	4.5~6.0	85	141~150	55~85	60~70	411	φ8	φ12
AZX30	4.5~6.0	85	175~220	87~125	60~70	424	φ10	φ12

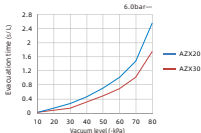
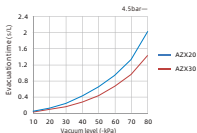
Vacuum flow(NL/min) at different vacuum levels(-kPa)

Model	Air supply pressure bar	Air consumption NL/min	0	10	20	30	40	50	60	70	80	Max. vacuum level -kPa
AZX20	4.5	55	141	77	45	39.5	29.5	25	17.5	12	3	85
AZX30	4.5	87	175	105	70	63	53	40	26	14	6.5	85
AZX20	6.0	85	150	100	55	38	30	24	16	11	3.2	85
AZX30	6.0	125	220	150	81	65	50	38	27	18	5	85

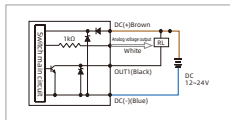


Evacuation time(s/L) to reach different vacuum levels(-kPa)

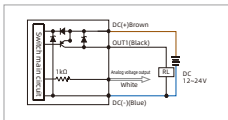
Model	Air supply pressure bar	Air consumption NL/min	10	20	30	40	50	60	70	80	Max. vacuum level -kPa
AZX20	4.5	55	0.04	0.12	0.23	0.41	0.65	0.93	1.33	2.03	85
AZX30	4.5	87	0.03	0.09	0.16	0.27	0.43	0.66	0.95	1.43	85
AZX20	6.0	85	0.02	0.15	0.28	0.46	0.71	1.02	1.48	2.55	85
AZX30	6.0	125	0.02	0.08	0.14	0.31	0.49	0.69	1.02	1.75	85



Output circuit wiring diagrams



ZPDT-CNV-R1M 1NPN+Analog voltage output(1-5V)



ZPDT-CPV-R1M 1PNP+Analog voltage output(1-5V)

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Technical parameters

Model	ZPDT-C (Compound)
Rated pressure range	-100.0~100.0kPa
Setting pressure range	-103.0~103.0kPa
Withstand pressure	500kPa
Fluid	Air, Non-corrosive gas/Non-flammable gas
Pressure unit	kPa
Set pressure resolution	MPa
	kgf/cm ²
	bar
	psi
	inHg
	mmHg
Power supply voltage	1.2 to 24V Dc±10%, ripple(P-P)10% or less
Current consumption	≤40mA (Without load)
Switch output	Output type
	load current
	Residual voltage
	Response time
Analog output	Output Voltage
	Output impedance
	Linearity
Display	Display
	Indicator accuracy
	Repeatability
Environmental resistance	Switch ON Indicator
	IP Grade
	Ambient temperature
	Temperature characteristic
	Storage temperature
	Ambient temperature
	Withstand voltage
	Insulation resistance
	Vibration resistance
	Impact resistance
Lead wire	
Weight	

Vacuum Generator

AZX

AZQ

AZX

AZD

AGS

AGB

AGP

AGX

AGE

ABP/ABX

ABW/ABZ

AMC

AWL/WH

AWL/WH

AWD

AZW

AZR

ABT

ABP

ABQ

AEVC

AZL

ALH

AZH

AZU

ACV

ASBP

ALS

ACP

ACPF

ACPS

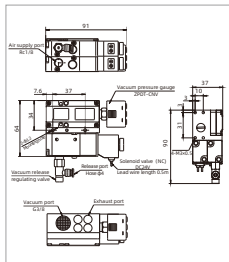
APB

AZX Series

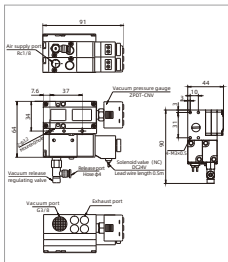
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Dimensions(mm)



AZX20-N AZX20-P



AZX30-N AZX30-P