



VACUUM GENERATORS

VACUUM SUCTION CUPS

VACUUM GRIPPERS

Make Smart



Go Together





Make Smart Go Together

AIRBEST was established in 2006, engaged in R&D, manufacturing and sales of vacuum gripping products (vacuum generator, vacuum suction cups and vacuum grippers, etc).

Products are used in different industries, mainly includes intelligent manufacturing, automotive metal press, packaging, woodworking, industrial robots, foods, pharmaceuticals, electronics, etc.

We pay attention to the practical application of products, quality-orientation and innovation first. So far we acquired many patents.

AIRBEST constantly serves customers and makes improvements, contributes our professional technology in vacuum gripping field.

Appreciate for your attention and support to AIRBEST.



Negative pressure conversion table

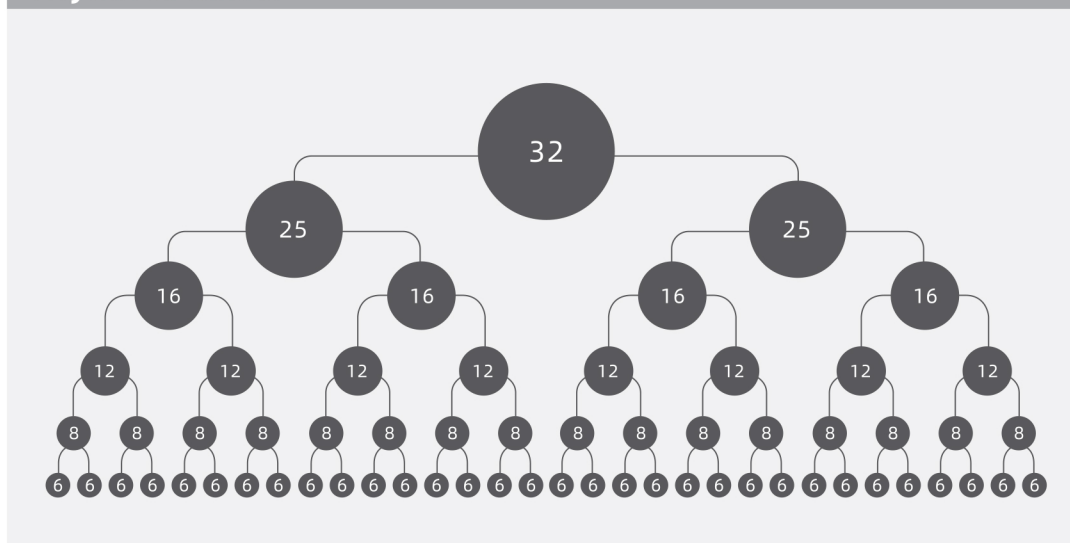
	mbar	kPa	-kPa	%vacuum	torr	-mmHg	-inHg
Atmospheric pressure	1,013	101.3	0	0	760	0	0
	913	91.3	10	9.9	685	75	3
	813	81.3	20	19.7	610	150	6
	713	71.3	30	29.6	535	225	9
	613	61.3	40	39.5	460	300	12
	513	51.3	50	49.3	385	375	15
	413	41.3	60	59.2	310	450	18
	313	31.3	70	69.1	235	525	21
	213	21.3	80	79	160	600	24
	113	11.3	90	89	85	675	27
Absolute vacuum	0	0	101.3	100	0	760	30

Flow conversion table

	m ³ /s	m ³ /h	NL/min	NL/s	ft ³ /min(scfm)
1 m³/s	1	3,600	60,000	1,000	2,118.9
1 m³/h	0.28×10 ⁻³	1	16.6667	0.2778	0.5885
1 NL/min	16.67×10 ⁻⁶	0.06	1	0.0167	0.035
1 NL/s	1×10 ⁻³	3.6	60	1	2.1189
1 ft³/min	0.472×10 ⁻³	1.6992	28.32	0.4720	1

Flow: Air volume flows through specified cross section per unit time

Layout of hoses



Common application (for reference):

- ◇ The diameter mentioned above, for hoses dia. ≤ 16mm means outer diameter; dia. > 16mm, means inner diameter.
- ◇ The hoses layout above is for reference only, please consider the actual application.

<p>AZK Series Integrated Vacuum Generator</p> <p>NEW</p>  <p>RoHS</p>	<table border="1"> <thead> <tr> <th>Model</th> <th>Max.vacuum level(-kPa)</th> <th>Max.vacuum flow(NL/min)</th> </tr> </thead> <tbody> <tr> <td>AZK-S</td> <td>74</td> <td>44</td> </tr> <tr> <td>AZK-X</td> <td>91</td> <td>41</td> </tr> <tr> <td>AZK-P</td> <td>88</td> <td>40</td> </tr> <tr> <td>AZK-L</td> <td>90</td> <td>68</td> </tr> </tbody> </table>	Model	Max.vacuum level(-kPa)	Max.vacuum flow(NL/min)	AZK-S	74	44	AZK-X	91	41	AZK-P	88	40	AZK-L	90	68	<p>AGS Series Vacuum Generator</p>	<p>C type</p>  <table border="1"> <thead> <tr> <th>Model</th> <th>Max.vacuum level(-kPa)</th> <th>Max.vacuum flow(NL/min)</th> </tr> </thead> <tbody> <tr> <td>AGS-C-S02-2</td> <td>75</td> <td>16.8</td> </tr> <tr> <td>AGS-C-X2.5-2</td> <td>90</td> <td>17.2</td> </tr> <tr> <td>AGS-C-T05-2</td> <td>84</td> <td>19.5</td> </tr> </tbody> </table>	Model	Max.vacuum level(-kPa)	Max.vacuum flow(NL/min)	AGS-C-S02-2	75	16.8	AGS-C-X2.5-2	90	17.2	AGS-C-T05-2	84	19.5									
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AMC150L	75	1,690																																																							
AMC25H	95	354																																																							
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ABM10×1	85	32																																																							
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<p>AEVC Series Vacuum Generator with Fast Blow-off</p> 	<table border="1"> <thead> <tr> <th>Model</th> <th>Max.vacuum level(-kPa)</th> <th>Max.vacuum flow(NL/min)</th> </tr> </thead> <tbody> <tr> <td>AEVC10</td> <td>85</td> <td>35</td> </tr> </tbody> </table>	Model	Max.vacuum level(-kPa)	Max.vacuum flow(NL/min)	AEVC10	85	35	<p>AM/AL/AH Series Multistage Vacuum Generator</p>  <p>RoHS</p>	<table border="1"> <thead> <tr> <th>Model</th> <th>Max.vacuum level(-kPa)</th> <th>Max.vacuum flow(NL/min)</th> </tr> </thead> <tbody> <tr> <td>AM25L</td> <td>92</td> <td>360</td> </tr> <tr> <td>AM50L</td> <td>92</td> <td>600</td> </tr> <tr> <td>AM75L</td> <td>92</td> <td>760</td> </tr> <tr> <td>AM100L</td> <td>92</td> <td>850</td> </tr> <tr> <td>AM125L</td> <td>92</td> <td>1,150</td> </tr> <tr> <td>AM150L</td> <td>92</td> <td>1,200</td> </tr> <tr> <td>AL25</td> <td>81</td> <td>360</td> </tr> <tr> <td>AL50</td> <td>81</td> <td>640</td> </tr> <tr> <td>AL75</td> <td>81</td> <td>850</td> </tr> <tr> <td>AL100</td> <td>81</td> <td>990</td> </tr> <tr> <td>AL125</td> <td>81</td> <td>1,170</td> </tr> <tr> <td>AL150</td> <td>81</td> <td>1,230</td> </tr> <tr> <td>AH40</td> <td>99.8</td> <td>150</td> </tr> <tr> <td>AH120</td> <td>100.8</td> <td>530</td> </tr> </tbody> </table>	Model	Max.vacuum level(-kPa)	Max.vacuum flow(NL/min)	AM25L	92	360	AM50L	92	600	AM75L	92	760	AM100L	92	850	AM125L	92	1,150	AM150L	92	1,200	AL25	81	360	AL50	81	640	AL75	81	850	AL100	81	990	AL125	81	1,170	AL150	81	1,230	AH40	99.8	150	AH120	100.8	530			
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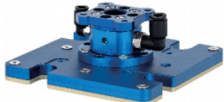


<p>SP3 Series Flat (U) Suction Cup</p> <p>NEW</p>  <p>RoHS</p>	<table border="1"> <thead> <tr> <th>Model</th> <th>Material/Hardness</th> </tr> </thead> <tbody> <tr> <td>SP3U1.5</td> <td>N - NBR 55</td> </tr> <tr> <td>SP3U2</td> <td>WS - White silicone 50</td> </tr> <tr> <td>SP3U3.5</td> <td>CN - Conductive NBR 55</td> </tr> <tr> <td></td> <td>CS - Conductive silicone 55</td> </tr> </tbody> </table>	Model	Material/Hardness	SP3U1.5	N - NBR 55	SP3U2	WS - White silicone 50	SP3U3.5	CN - Conductive NBR 55		CS - Conductive silicone 55	<p>SBF Series 1.5 Bellows Suction Cup Special for Metal Sheet</p> 	<table border="1"> <thead> <tr> <th>Model</th> <th>Material/Hardness</th> </tr> </thead> <tbody> <tr> <td>SBF30</td> <td>U - PU 70</td> </tr> <tr> <td>SBF40</td> <td></td> </tr> <tr> <td>SBF50</td> <td></td> </tr> <tr> <td>SBF60</td> <td></td> </tr> <tr> <td>SBF80</td> <td></td> </tr> <tr> <td>SBF100</td> <td></td> </tr> </tbody> </table>	Model	Material/Hardness	SBF30	U - PU 70	SBF40		SBF50		SBF60		SBF80		SBF100							
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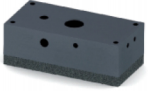




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<p>SPA Series Thin Lip Flat Suction Cup</p>  <p>RoHS</p>	Model	Material/Hardness	<p>SPC Series Bellows Suction Cup</p>  <p>RoHS</p>	Model	Material/Hardness		
	SPA10A SPA20B	N - NBR		55	SPC3 SPC20	N - NBR	55
	SPA10B SPA25A	WS - White silicone		50	SPC5 SPC25	WS - White silicone	50
	SPA15A SPA30A	CN - Conductive NBR		55	SPC7 SPC30	CN - Conductive NBR	55
	SPA15B SPA30B	CS - Conductive silicone		55	SPC10 SPC40	CS - Conductive silicone	55
	SPA15D SPA40A				SPC12 SPC60		
	SPA15X SPA50A				SPC15 SPC90		
SPA20A			SPC18				
<p>SNP Series Rectangular Foam Rubber Cup</p> 	Model	Material/Hardness	<p>SOP Series Circular Foam Rubber Cup</p> 	Model	Material/Hardness		
	SNP50×135	NF - Neoprene foam rubber			SOP40 SOP127	NF - Neoprene foam rubber	
	SNP60×135	OF - Geranium foam rubber			SOP64 SOP180	OF - Geranium foam rubber	
	SNP75×107				SOP92 SOP220		
	SNP68×290						
	SNP140×290						













Special Vacuum Grippers



<p>SLG Series Magnetic Gripper</p> <p>NEW</p> 	Model	Connection thread	Air supply pressure range(bar)	<p>SNC Series Needle Gripper</p> <p>NEW</p> 	Model	Air consumption (NL/min)	Air supply pressure range(bar)
	SLG20 SLG30-H	G1/8 female	3.5~6.0		SNC4	55	4.0~6.0
	SLG30 SLG40-H	G1/4 female			SNC10	65	4.0~6.0
	SLG40 SLG50-H						
	SLG50						
<p>SNT Series Non-contact Suction Cup</p> 	Model	Body material	Cusion material	<p>SLB Series Thin Lip Flow Gripper</p> 	Model	Max. Vacuum level(-kPa)	Max. Vacuum flow(NL/min)
	SNT20 SNT60	Aluminum alloy	N - NBR		SLB30-M10	16	680-690
	SNT30 SNT100		PK - PEEK		SLB50-M10	16	680-690
	SNT40 SNT120				SLB50-M20	4.5	1,070-1,315
<p>SLP Series Flow Gripper</p> 	Model	Max. Vacuum level(-kPa)	Max. Vacuum flow(NL/min)	<p>SLW Series Wafer Gripper</p> 	Model	Max. Vacuum level(-kPa)	Max. Vacuum flow(NL/min)
	SLP40-M10	11	320-450		SLW100-M10	11	330-460
	SLP60-M10	11	330-550		SLW115-M10	11	400-430
	SLP60-M20	4.5	970-1,195		SLW146-M10	11	410-440
			SLW170-M10		11	350-490	
			SLW120-M15		4.5	370-460	
			SLW150-M15		4.5	370-460	
			SLW180-M15		4.5	370-460	
<p>SLF Series Matrix Gripper</p> 	Model	Vacuum source	<p>SLF Series Matrix Gripper</p> 	Model	Max. Vacuum level(-kPa)	Max. Vacuum flow(NL/min)	
	SLF140	External blower		SLF180X	80	250	
	SLF180			SLF180S	58	242	
	SLF140W	External large flow					
	SLF180W	vacuum generator					

<p>TXN Series Vacuum Gripper-Mini Type</p> 	<table border="1"> <thead> <tr> <th>Model</th> <th>Vacuum type</th> </tr> </thead> <tbody> <tr> <td>TXN22×38-A</td> <td>Without vacuum generator</td> </tr> <tr> <td>TXN22×76-A</td> <td>Without vacuum generator</td> </tr> </tbody> </table>	Model	Vacuum type	TXN22×38-A	Without vacuum generator	TXN22×76-A	Without vacuum generator	<p>TXH Series Vacuum Gripper-Heavy Load Type</p> 	<table border="1"> <thead> <tr> <th>Model</th> <th>Adsorbing surface type</th> <th>Vacuum source</th> </tr> </thead> <tbody> <tr> <td>TXH500×700</td> <td>A - Sponge</td> <td>Vacuum generator</td> </tr> <tr> <td>TXH800×1000</td> <td>B - Suction cup</td> <td>External blower</td> </tr> <tr> <td>TXH1100×1300</td> <td></td> <td></td> </tr> </tbody> </table>	Model	Adsorbing surface type	Vacuum source	TXH500×700	A - Sponge	Vacuum generator	TXH800×1000	B - Suction cup	External blower	TXH1100×1300																	
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Mounting Parts













<p>PSPD Series Double Spring Heavy-duty Type Level Compensator</p> 	<table border="1"> <thead> <tr> <th>Model</th> <th>Buffer Stroke (mm)</th> <th>Mounting thread</th> </tr> </thead> <tbody> <tr> <td>PSPD-E25G2M-M20</td> <td>25</td> <td>M20</td> </tr> <tr> <td>PSPD-E50G2M-M20</td> <td>50</td> <td>M30</td> </tr> <tr> <td>PSPD-E50G3M-M30</td> <td>90</td> <td></td> </tr> <tr> <td>PSPD-E90G4M-M30</td> <td></td> <td></td> </tr> </tbody> </table>	Model	Buffer Stroke (mm)	Mounting thread	PSPD-E25G2M-M20	25	M20	PSPD-E50G2M-M20	50	M30	PSPD-E50G3M-M30	90		PSPD-E90G4M-M30			<p>PSPE Series Small and Light Level Compensator</p> 	<table border="1"> <thead> <tr> <th>Model</th> <th>Buffer Stroke (mm)</th> <th>Mounting thread</th> </tr> </thead> <tbody> <tr> <td>PSPE-I6LA6M5M-M8</td> <td>6 25</td> <td>M8</td> </tr> <tr> <td>PSPE-I6BA6M5M-M8</td> <td>10 30</td> <td>M10</td> </tr> <tr> <td>PSPE-I10M5M-M10</td> <td>15 40</td> <td>M14</td> </tr> <tr> <td>PSPE-I10RM5M-M10</td> <td>20 50</td> <td></td> </tr> <tr> <td>PSPE-I10M8M-M14</td> <td></td> <td></td> </tr> </tbody> </table>	Model	Buffer Stroke (mm)	Mounting thread	PSPE-I6LA6M5M-M8	6 25	M8	PSPE-I6BA6M5M-M8	10 30	M10	PSPE-I10M5M-M10	15 40	M14	PSPE-I10RM5M-M10	20 50		PSPE-I10M8M-M14		
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<p>PSPL Series Retractive Level Compensator</p>  <p>NEW</p>	<table border="1"> <thead> <tr> <th>Model</th> <th>Buffer Stroke (mm)</th> <th>Mounting thread</th> </tr> </thead> <tbody> <tr> <td>PSPL-I10M5F-M10</td> <td>10</td> <td>M10</td> </tr> <tr> <td>PSPL-I15M5F-M10</td> <td>15</td> <td></td> </tr> <tr> <td>PSPL-I20M5F-M10</td> <td>20</td> <td></td> </tr> </tbody> </table>	Model	Buffer Stroke (mm)	Mounting thread	PSPL-I10M5F-M10	10	M10	PSPL-I15M5F-M10	15		PSPL-I20M5F-M10	20		<p>PJH Series Universal Mounting Parts-Universal Holder</p> 	<table border="1"> <thead> <tr> <th>Model</th> <th>Length of connecting rod</th> <th>Max. deflection</th> </tr> </thead> <tbody> <tr> <td>PJH-1A80</td> <td>80</td> <td>15°</td> </tr> <tr> <td>PJH-2A80</td> <td>100</td> <td></td> </tr> <tr> <td>PJH-1B80</td> <td>140</td> <td></td> </tr> <tr> <td>PJH-2B80</td> <td>200</td> <td></td> </tr> </tbody> </table>	Model	Length of connecting rod	Max. deflection	PJH-1A80	80	15°	PJH-2A80	100		PJH-1B80	140		PJH-2B80	200																		
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PSPL-I15M5F-M10	15																																														
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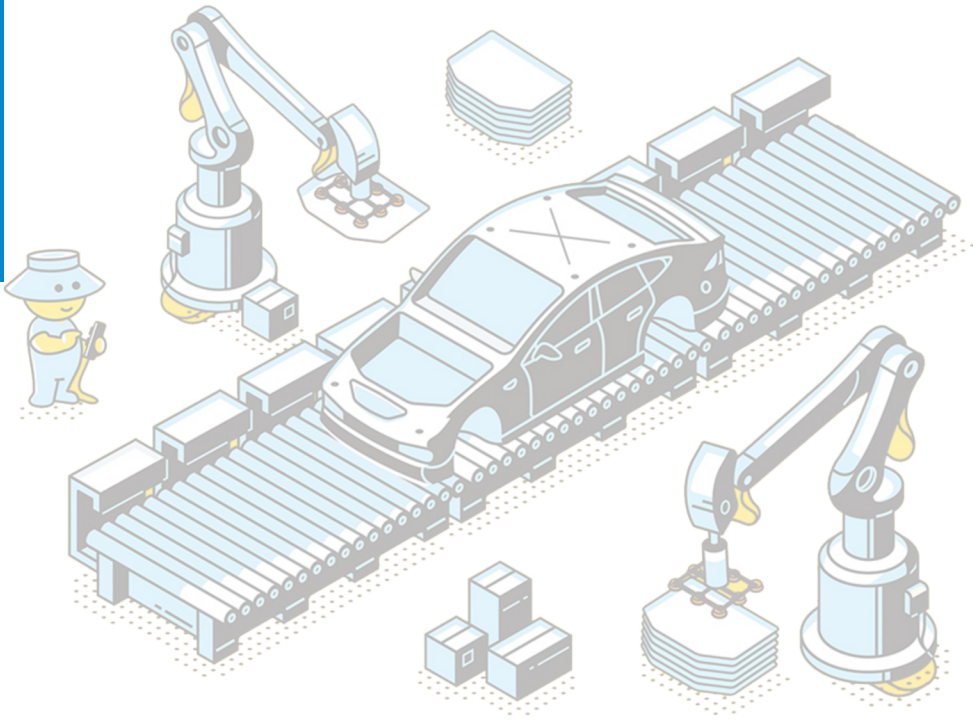
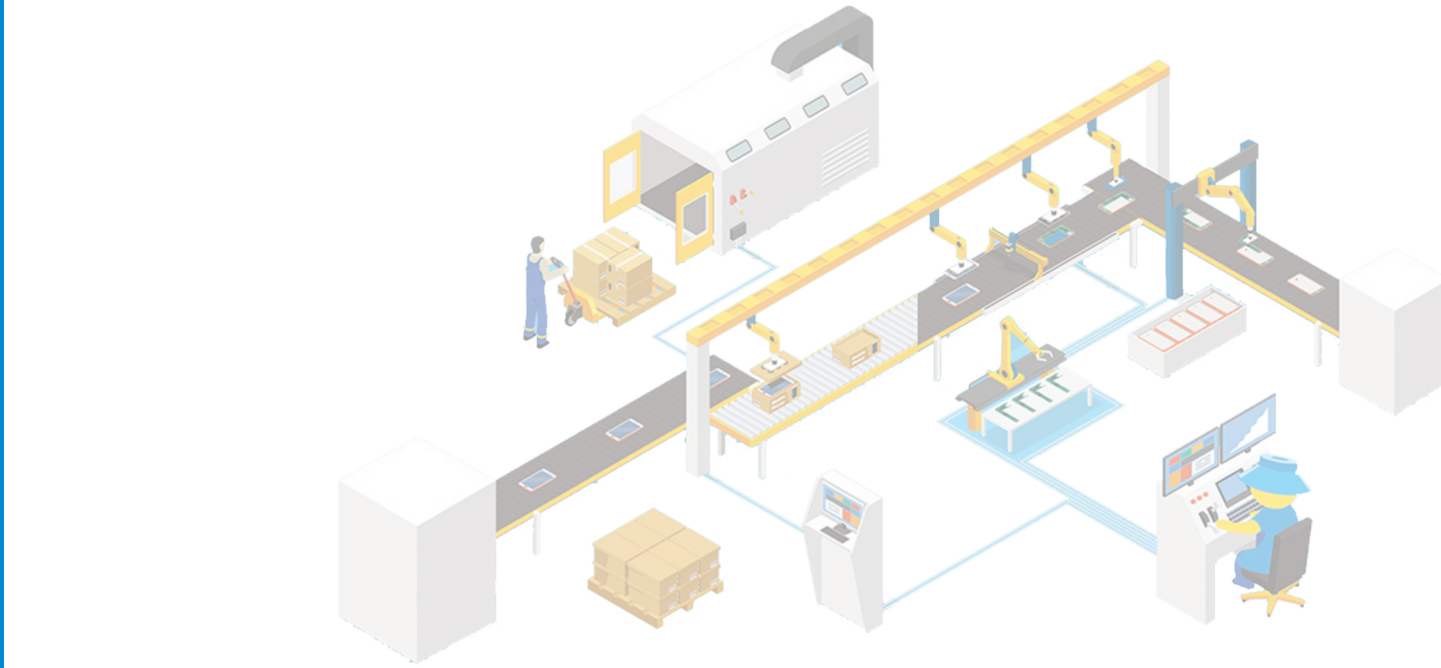
PJP Series Universal One-touch Fitting	Model	Hose specification	Connection thread	PJQ Series Universal Pagoda Fitting	Model	Hose specification	Connection thread
	PJP-I	φ4	M5×0.8 Male thread		PJQ-B6-M5M	φ6	M5×0.8 male thread
	PJP-L	φ6	G1/8 Male thread		PJQ-B8-G1M	φ8	G1/8 male thread
	PJP-LT	φ8	G1/4 Male thread		PJQ-B10-G2M	φ10	G1/4 male thread
	PJP-T	φ10	G3/8 Male thread		PJQ-B12-G3M	φ12	G3/8 male thread
	PJP-QT	φ12	G1/2 Male thread		PJQ-B19-G4M	φ19	G3/4 male thread
		φ14			PJQ-B19-G6M	φ19	G1 male thread
			PJQ-B25-G6M	φ25			
			PJQ-B25-G8M	φ25			
			PJQ-B32-G8M	φ32			

Vacuum Accessories

ZFA Series Universal Vacuum Filter  	Model	Operating pressure range(MPa)	Flow(NL/min) Positive Vacuum pressure	ZFE Series Small Vacuum Filter 	Model	Operating pressure range(kPa)	Nominal flow (NL/min)
	ZFA54B	-0.1~0.8	40 10		ZFE-02B	-100~0.0	2
	ZFA56B	-0.1~0.8	130 75		ZFE-03B		7
	ZFA76B	-0.1~0.8	140 80		ZFE-04B		10
	ZFA78B	-0.1~0.8	280 110				
	ZFA710B	-0.1~0.8	320 120				
	ZFA712B	-0.1~0.8	370 140				
ZFD Series Mini Type Vacuum Filter 	Model	Operating pressure range(kPa)	Nominal flow (NL/min)	ZVD Series Touch Valve 	Model	Start-up elasticity N	
	ZFD04	-100.0-0.0	27		ZVD-G2M	5	
	ZFD06	-100.0-0.0	49		ZVD-G4M	6.6	
ZFL Series Inline Vacuum Filter 	Model	Operating pressure range(kPa)	Nominal flow (NL/min)	ZVRM Series Check Valve 	Model	Overflow port diameter(mm)	
	ZFL06	-100.0-0.0	25		ZVRM03-M5M	φ0.3	
	ZFL10	-100.0-0.0	220		ZVRM05-M5M	φ0.5	
			ZVRM07-M5M		φ0.7		
			ZVRM05-G1M		φ0.5		
			ZVRM07-G1M		φ0.7		
			ZVRM10-G1M	φ1.0			
ZVAA Series Pneumatic Control Valve 	Model	Air supply pressure(bar)	Output function	ZVCM Series Check Valve 	Model	Connection thread to vacuum generator	
	ZVAA-G1F	3.5~7.0	NO		ZVCM-M5F	M5 Female thread	
	ZVAA-G2F	3.5~7.0	NO		ZVCM-G1F	G1/8 Female thread	

ZVEA Series Electric Control Valve 	Model Air supply pressure(bar) Output function	ZFB Series Universal Vacuum Filter 	Model Operating pressure range(kPa) Nominal flow(NL/min)
	ZVEA-G1F 3.5~7.0 NC		ZFB10B -100.0~0.0 150
	ZVEA-G2F 3.5~7.0 NC		ZFB15B -100.0~0.0 900
ZVAC Series Pneumatic Control Valve 	Model Air supply pressure(bar) Control mode	ZFP Series Big Flow Vacuum Filter 	Model Operating pressure range(kPa) Nominal flow(m ³ /H)
	ZVAC-NO 1.0~8.0 Pneumatic control		ZFP30 -100.0~0.0 32
			ZFP40 -100.0~0.0 42
ZVAB Series Pneumatic Control Valve 	Model Air supply pressure(bar) Signal range(-kPa)	ZPMR Series Mechanical Pressure Gauge 	Model Pressure range Connection Thread
	ZVAB-NC 1.5~8.0 15~95		ZPMR-P 0~1MPa NPT1/8 Male thread
	ZVAB-NO 1.5~8.0 10~95		ZPMR-V -100~0kPa G1/8 Male thread
ZVR Series Check Valve 	Model Overflow port diameter(mm)	ZVS Series Fast Blow-off Valve 	Model Air supply pressure range(bar) Air supply port connection thread
	ZVR04-M5F ZVR04-M5M φ0.4		ZVS-G1F 3.0~7.0bar G1/8 Female thread
	ZVR05-G1F ZVR05-G1M φ0.5		ZVS-G2F 3.0~7.0bar G1/4 Female thread
	ZVR06-G2F ZVR06-G2M φ0.6		
	ZVR10-G3F ZVR10-G3M φ1.0		
	ZVR12-G4F ZVR12-G4M φ1.2		
ZVT Series Throttle Valve 	Model Overflow port diameter(mm)	ZSA Series Silencer 	Model Connection Thread
	ZVT25-G1M - φ0.25		ZSA-G1M G1M - G1/8 Male thread
	ZVT40-G1M ZVT40-G2M φ0.4		ZSA-G2M G2M - G1/4 Male thread
	ZVT60-G1M ZVT60-G2M φ0.6		ZSA-G3M G3M - G3/8 Male thread
	ZVT80-G1M ZVT80-G2M φ0.8		ZSA-G4M G4M - G1/2 Male thread
	ZVT100-G1M ZVT100-G2M φ1.0		ZSA-G6M G6M - G3/4 Male thread
	ZVT120-G1M ZVT120-G2M φ1.2		ZSA-G8M G8M - G1" Male thread
	- ZVT150-G2M φ1.5		
	- ZVT200-G2M φ2.0		
ZPDT Series High-Precision Digital Pressure Switch 	Model	ZPDE Series High-Precision Digital Pressure Switch 	Model
	ZPDT-CNV-R1M		ZPDE-CN-R1M
	ZPDT-CPV-R1M		ZPDE-PN-R1M
	ZPDT-PNV-R1M		
	ZPDT-PPV-R1M		
	Pressure type		Pressure type
	C - Compound (-100.0~100.0kPa)		C - Compound (-100.0~100.0kPa)
	P - Positive (-0.100~1.000MPa)		P - Positive (-0.100~1.000MPa)
	Output type		Output type
	NV - 1NPN+1Analog voltage output (1-5V)		N - 1NPN
PV - 1PNP+1Analog voltage output (1-5V)			

Vacuum Components for Automation



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