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INTRODUCTION of

VESSEL AD-2 AIR DUSTERS

MARCH 15, 2016

VESSEL CO., INC.

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Air Dusters are…

Used for blowing off dusts and oil by wind pressure generated at the time when compressed air is released.

Principal Applications:

Removal of machined chips, particles, moisture, oil during plate coating, automotive maintenance, and metal processing

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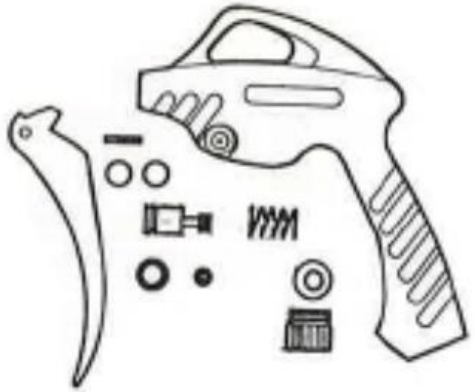
Mechanical Characteristics



1. Minimum number of parts → Low cost and light-weight

2. Flow control at hand → Easy to adjust air-blow freely by gripping the lever

3. Variety of nozzles available (12 kinds in total)

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Design Characteristics

1. Large lever on the grip
→ Less fatigue on your fingers in spite of long time operation

2. User-friendly design

- Large hook hole for easy suspension
- Comfortable and non-slip ergonomic grip

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Material Characteristics

1. Oil-resistant and less worn poly-acetal resin

  • Light-weight plastic body; one-thirds or a half of metal body air dusters

2. Heat retention and insulating effect

3. Inlet, throttle, and tip made of brass (anti-rust)

4. Various nozzles made of Stainless steel (anti-rust and long durability)

5. Rubber chips are included in the rubber nozzle (avoiding scratches on work-piece)

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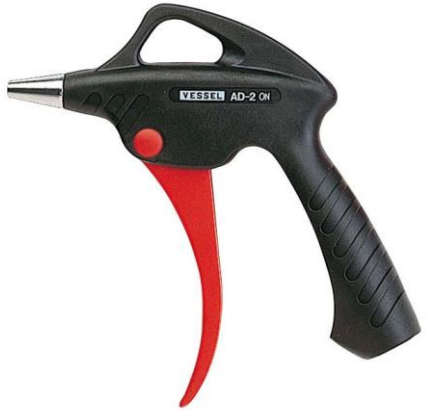
Standard Nozzle and Long Nozzle

【Characteristics】

・Standard type for multi-purposes

・Recommended to use the Long Nozzle type for cleaning in a recessed area



【Applications】

Removal of machined chips, particles, moisture, oil, and so on

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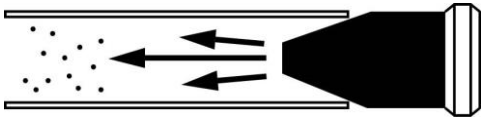
Rubber Nozzle



【Characteristics】

・Rubber discharge nozzle avoids scratches on the coating surface and molds

・Can blow away dusts by attaching closely the nozzle tip on the liquid flow piping

【Applications】

・Removal of moisture and dry prior to coating process

・Removal of machined chips and oil in mold making

・Removal of foreign particles inside the liquid flo piping (e.g. brake hose, fuel hose, and others)

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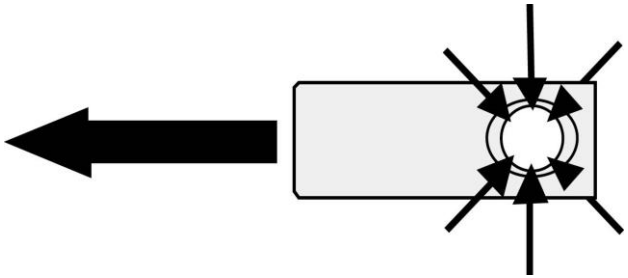
High Volume Nozzle



【Characteristics】

・An incorporated venture nozzle enables to increase the discharge volume for wide area.

【Applications】

・Removal of machined chips, particles, moisture, oil, and so on

・When more air volume is required in spite of low air pressure (using a air compressor for coating)

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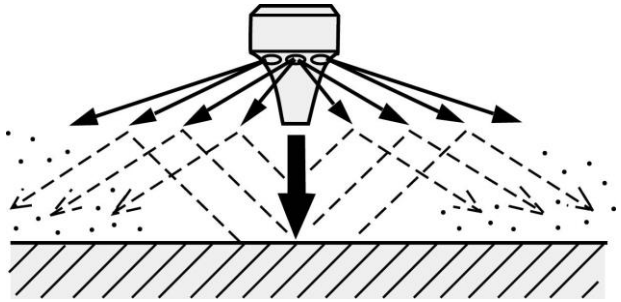
Air Screen Nozzle



【Characteristics】

・Air curtain shuts out the spreading of machined chips, moisture, and/or oil for safe operation

【Applications】

・ Removal of machined chips, particles, moisture, oil, and so on

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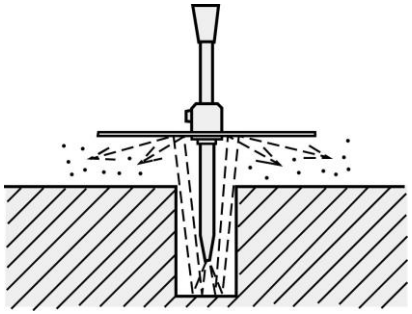
Chip Shield Long Nozzle



【Characteristics】

・Transparent acrylic plate blocks machined chips, moisture, and/or oil for safe operation

・Recommended for working in a recessed area or at a distance

・Acrylic plate can be slid on the nozzle according to the distance to the workpiece

【Applications】

・Removal of machined chips, moisture, and oil in a recessed area

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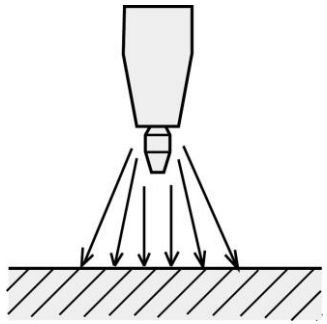
Safety Bypass (Long) Nozzle



【Characteristics】

・Air can be dissipated evenly to wide area (not a specific area is strongly pressurized)

・Silent noise type

・Cleaning in a recessed area (with long nozzle)

【Applications】

・ Removal of machined chips, particles, water, oil, and so on

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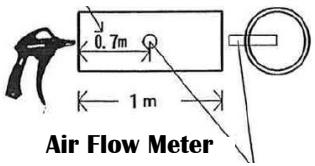
[Reference] Measured Values

Air Consumption(L/min)

Pipe Inner bore dia. 100mm



Air Flow Meter

Anemomaster model 24-6111 (Brand: KANOMAX)

Air pressure		2kg/cm 2	3kg/cm 2	4kg/cm 2	5kg/cm 2	6kg/cm 2
VESSEL AD-2	0 N (Normal Nozzle)	141	188	211	236	259
	100 A (25° Long Nozzle)	141	188	211	236	259
	0 R (Rubber Nozzle)	165	188	236	236	283
	0 M (Increased air volume Nozzle) Compare to 0 N	306 2.2 times	400 2.1 times	471 2.2 times	565 2.4 times	612 2.4 times
	0 C (Air curtain Nozzle) Include value of air curtain	94 141	118 188	165 236	188 283	236 330
	0 S (Safety Nozzle)	94	165	188	188	188
VESSEL AD-100 (Normal Nozzle)		141	188	188	211	259
Kinki S/S K-601 (Normal Nozzle)		164	165	211	236	236
Iwata Tosou AG-6 (Normal Nozzle)		118	165	188	211	259
Meiji S/S DT-2 (Normal Nozzle)		165	188	211	259	306
Kurita S/S AG-50 (Normal Nozzle)		141	165	188	211	236
CEJN 204 (Normal Nozzle)		211	330	330	377	424

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[Reference] Noise (dBA)

Measured Values

Air pressure		4kg/cm 2		5kg/cm 2		6kg/cm 2	
		Front	Side	Front	Side	Front	Side
VESSEL AD-2	ON (Normal Nozzle)	91	78	92	81	98	83
	100A (25° Long Nozzle)	91	79	92	81	95	82
	OR (Rubber Nozzle)	95	81	96	83	98	84
	OM (Increased air volume Nozzle) Compare to ON	91	91	94	92	95	94
	OC (Air curtain Nozzle) Include value of air curtain	82	79	87	82	90	85
	OS (Safety Nozzle)	73	73	73	73	80	74
VESSEL AD-100 (Normal Nozzle)		93	81	97	83	101	84
Kinki S/S K-601 (Normal Nozzle)		93	81	98	82	101	83
Iwata Tosou AG-6 (Normal Nozzle)		92	78	92	80	97	82
Meiji S/S DT-2 (Normal Nozzle)		92	80	95	83	101	84
Kurita S/S AG-50 (Normal Nozzle)		91	81	94	83	97	85
CEJN 204 (Normal Nozzle)		102	84	105	87	105	89

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Package

2 types, either blister package or individual carton, are available.

* Depending on the models, either of them is available.

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THANK YOU!