



aerospace climate control electromechanical filtration fluid & gas handling hydraulics pneumatics process control sealing & shielding





Air Saver Unit

An environmentally friendly solution to reducing air consumption.

Catalogue PDE2672TCUK June 2016





ENGINEERING YOUR SUCCESS.

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Important !

Before carrying out any service work, ensure that the Air Saver Unit has been vented. Remove the primary supply air hose to ensure total disconnection of the air supply before dismantling valves or blank connection blocks.



NB!

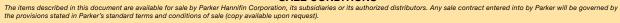
All technical data in this catalogue is typical only.

The air quality is decisive for the valve life: see ISO 8573.



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SALE CONDITIONS

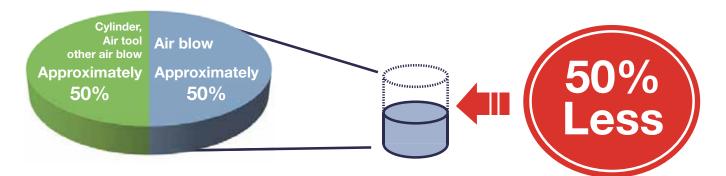




An easy solution to your environmental protection efforts! The air saving unit contributes to power savings and CO2 reduction.

Air Saver Unit ASC/ASV Series

The Air Saver Unit can reduce air consumption by up to 50% and improves blow efficiency in air blow applications.



When using an Air Saver Unit several significant benefits can be achieved. Air blowing accounts for almost 50% of all compressed air used in plants. By using switching valve technology the Air Saver Unit can reduce air consumption by up to 50%!

- Large reductions in air consumption.
- Savings in compressor power consumption.
- Reduction in plant CO² emissions.
- Big contribution to energy-saving activities.















ASV2000 Series ASV5000 Series

Typical Savings*: (*100 off ASC500 Units 8 hours/day for 20 days)

	Without Air Saver	With Air Saver
Power Consumption	53,600kW/month	26,800kW/month
CO2 Discharge	17t	8.5t
Cost	7 164 €/month	3 618 €/month

Your estimated Air Saver Unit cost reduction per year = €42 890.52



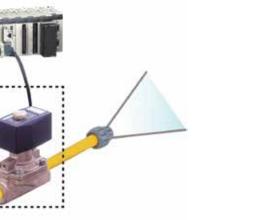
Installation is simple and reduction in air consumption can be realised immediately.

• When using an electrically operated solenoid valve to control the air blow, an Air Saver Unit can quickly and easily be retrofitted providing an immediate reduction in air consumption with no changes to the PLC programme.

<Before introduction of the unit>

<After introduction of the unit>

- Easy to install. Only changing the current solenoid valve to Air Saver Unit.
- Program change of controller is not necessary.



- When using manual valves such as ball valves...
 ASV200, ASV500 & ASV2000 do not need electrical power. Simply installing the unit brings immediate reduction in air consumption and improved efficiency.

<Before introduction of the unit>

<After introduction of the unit>





Realised effect of the unit. Voice of customers.

[Company A] Food & Beverage related manufacturer

"When we tested ASV5000, we achieved about 55% reduction of our air consumption.

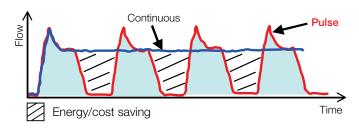
As air blow efficiency was improved, we planned to use more Air Saver Units for other areas in the plant".

Pulsing air technology reduces consumption.

The Air Saver Unit is a valve that converts a continuous air blow to a pulsed air blow without the need for any other external control. Air is blown with a series of ON and OFF pulses. When the blow is OFF, there is no air consumption.

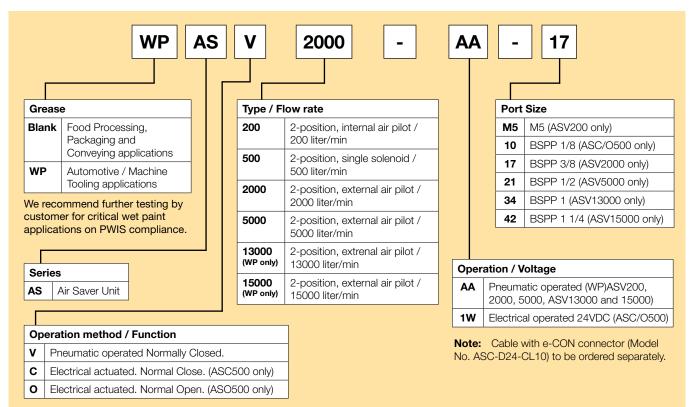
[Company B] Manufacturer of office document machines

"We are working on energy-saving activities. In those activities, we decided to use an Air Saver Unit. We have more than 100 points of air blow and we could reduce 42% of our air consumption by using this unit".





Order Code

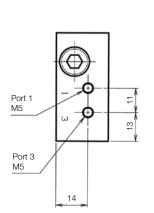


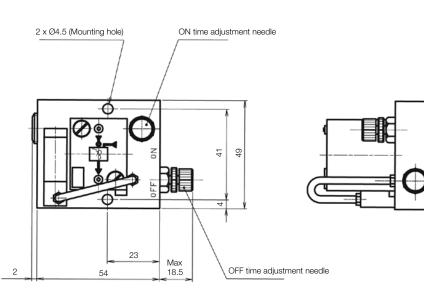
Specifications

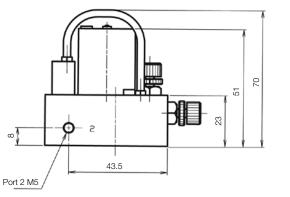
			P					
	ASV200	ASV2000	ASV5000	ASV13000	ASV15000	ASC500	ASO500	Unit
Function			Normall	y closed			Normally open	
Fluid			I	Non lubricate	d air			
Flow (at 5 bar)	150	2000	5000	13000	15000	450	450	l/min (ANR)
Port size	M5	M5 3/8 1/2 1" 1 1/4"					1/8	BSPP
Operating temperature		-5 to +50						°C
Pressure range	3 - 8 0 - 8					2 - 7	2 - 5	Bar
Pilot air supply	Internal pilot 3 - 8					Internal pilot		Bar
Blow	Pulse blow					Pulse/Continuous blow		
Rated voltage	Electrical power is not necessary					DC 24 V		V
Power consumption	-				1.2 W		W	
Grade of Insulation	- JIS grade E							
Permissible voltage fluctuation	- ± 10						%	
Wiring	e-CON - standard 4 pole socke							



(WP)ASV200-AA-M5

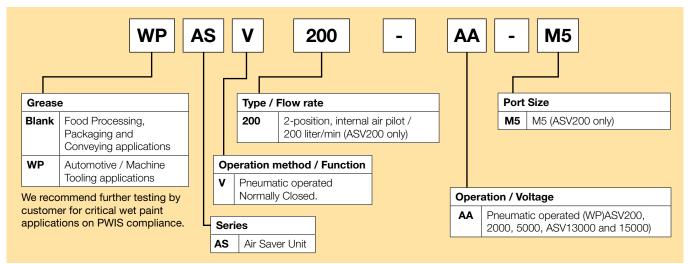






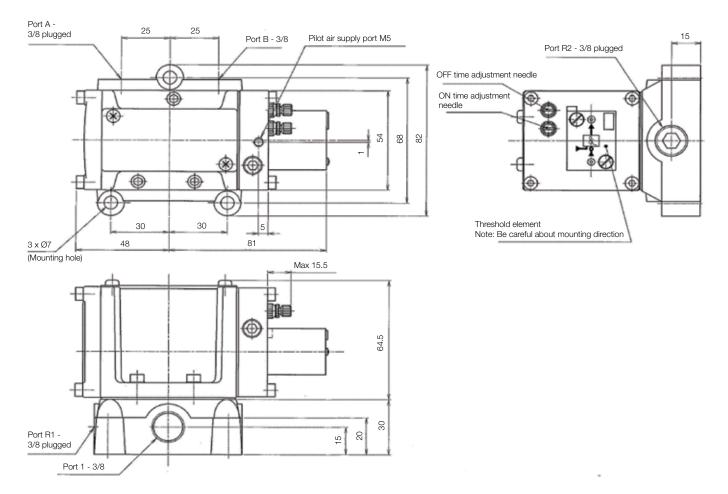
Piping

- Port 1 Supply port (Compressor side)
- Port 2 Output port (Blow nozzle side)
- Port 3 Exhaust port*
- * In order to keep out dust, the air muffler is recommended for exhaust port.



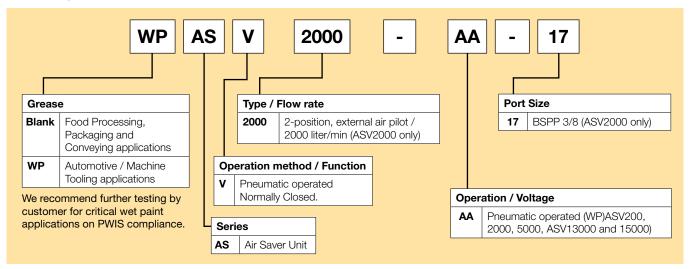


(WP)ASV2000-AA-17



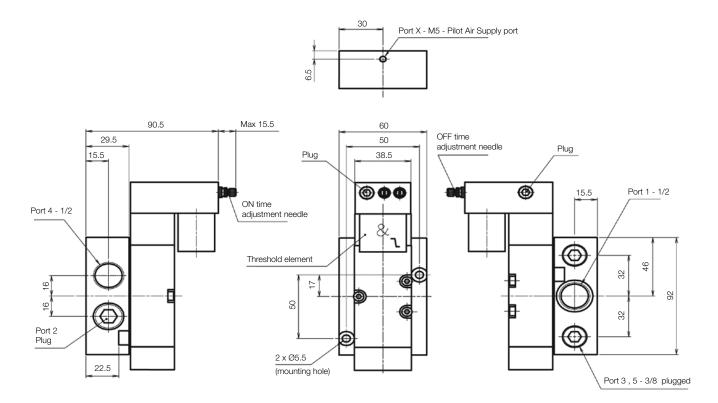
Piping

Port P Supply port (Compressor side) Port B Output port (Blow nozzle side) Pilot air supply port





(WP)ASV5000-AA-21

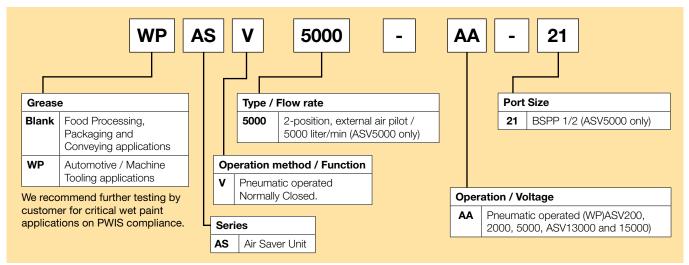


Piping

Port 1 Supply port (Compressor side)

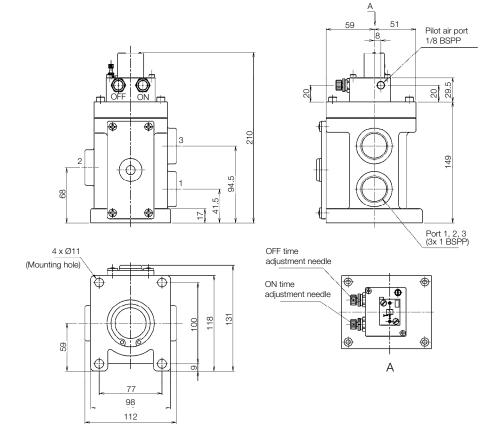
Port 4 Output port (Blow nozzle side)

Port X Pilot Air Supply port





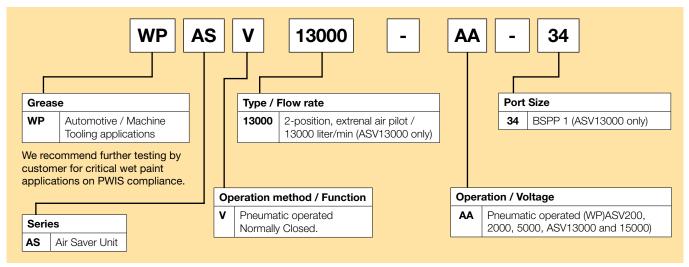
(WP)ASV13000-AA-34



Piping

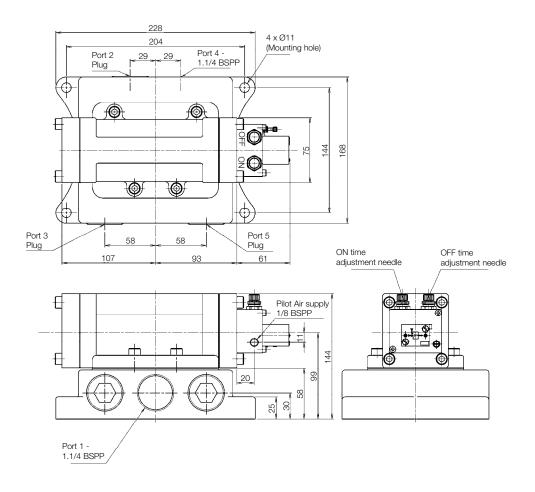
Port 1: Supply port (NC) (Compressor side) Port 2: Output port (Blow nozzle side) Port 3: Supply port (NO) (Compressor side)

Pilot Air Supply port: 1/8



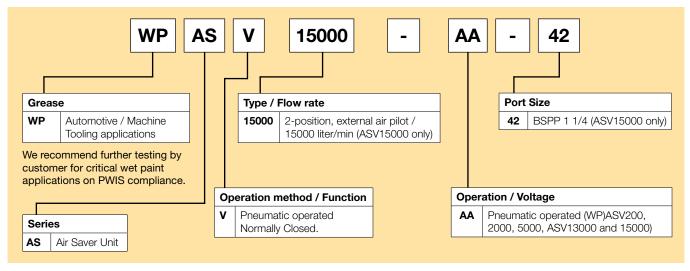


(WP)ASV15000-AA-42



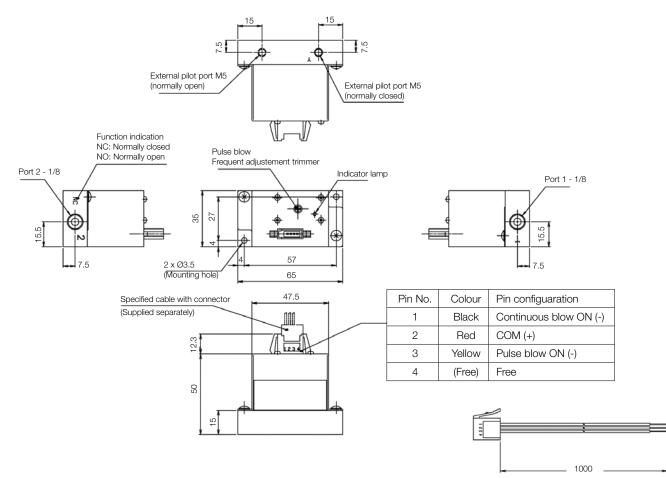
Piping

Port 1: Supply port (Compressor side) Port 2: Plug (1.1/4) Port 3: Plug (1.1/4) Port 4: Output port (Blow nozzle side) Pilot air supply port: 1/8





ASC500-1W-10 / ASO500-1W-10



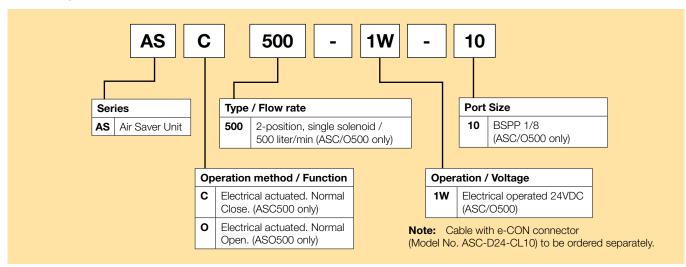
Piping

- Port 1 Supply port (Compressor side)
- Port 2 Output port (Blow nozzle side)

Y port Pilot exhaust port

* In order to avoid dust, it is recommended to attach an air muffler.

Ordering Instructions





*Cable with specific connector "ASC-D24-CL10"

(AWG26 ASC/ASO in common)

Air Saver Module HASV08G Series

Air Saving Unit for Air Blowgun

Easy Energy Saving Solution:

- Up to 35% reduction in air consumption
- Engineered for use with air blowguns
- Built-in pulse/continuous blow changeover button
- Pulsed air blow leading to improved efficiency
- Equipped with pulse frequency adjustment screw



Patent applied



35% Air Reduction



UP

Pulse/Continuous Blow Changeover Button

Pulse Frequency Adjustment



Specifications

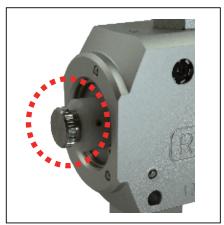
Features	5
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Model No.	HASV08G		Lower frequency	Higher frequency	
Operating pressure	3.5 ~ 8.0 bar	Pulse frequency	5 Hz	15 Hz	
Pulse frequency adjustment		setup			
range	5 ~ 15 Hz	ON time	170 ms	35 ms	
Body material	Aluminium	OFF time	30	ms	
Port size	IN BSPP 1/4, OUT BSPP 1/4	Air reduction	2004 I. II	1001 I II	
Weight	155 g	performance	20% reduction	40% reduction	



Pulse/Continuous air blow changeover button

Pulse blow



Continuous blow



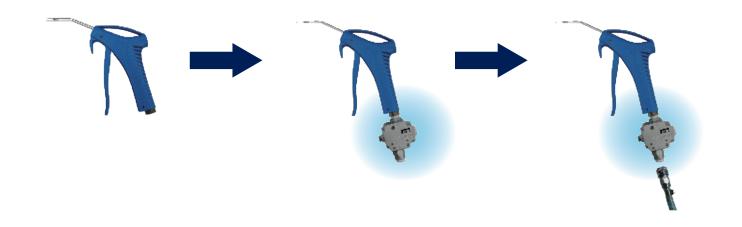
Equipped with air blow changeover button - when pushed the pulse blow will change to continuous blow. Operated by turning the button counterclockwise, button is then locked in place when it is turned 90 degrees clockwise.

Pulse frequency adjustment screw



Adjustable pulse frequency available - higher frequency is gained through turning the frequency adjustment button clockwise. Turning the button counter clockwise lowers the frequency of pulse.

How to Connect Air Saver Module to Air Blowgun



Applications

Swarf removal

Cleaning blow before assembly



Liquid removal after the manufacturing process



Swarf removal

Drying applications Can be used in many applications where air blow is a requirement Cooling application

PET bottle transfer

lonizer dust removal

Assist blow for PET bottle transfer



Electrical parts



Applications

Applications

Air Saver Unit ASC500/ASO500 Series





Pneumatic Solutions Beverage and Bottle Plants

Process	Application	Advantage
Before blow moulding PET bottles	Pulse ionized blow by Air Saving Unit in order to remove particles before PET bottles are moulded.	Pulse ionized blow and its blast of each pulse increase to remove particles effectively.
After blow moulding PET bottles	Cleaning blow for particles that attach to the blow moulded PET bottles.	Reducing about 40% of consumption air.
Conveying PET bottles	Assisting blow to convey PET bottles	Reducing about 40% of consumption air.
	Escape blow for PET bottles when the line is stopped.	Reducing about 40% of consumption air.
	Pulse ionized blow for PET bottles before pasting labels on them.	Pulse blow and its blast of each pulse increase to remove particles effectively.
Printing machine	Pulse ionized blow for bottles or caps before printing date on them.	Pulse blow and its blast of each pulse increase to remove particles effectively.



Selection of Air Saver Unit

Guide data for the correct selection of an Air Saver Unit for blow applications.

Please take into account the two variables:

- System operation pressure (bar)
- Required air consumption of nozzle or set of nozzles (I/min) to be controlled with one Air Saver Valve

Colour coding indicates correct Air Saver Unit

			Air	consumpt	tion (liter/m	nin)			
Nozzle Ø	Nozzle Ø	System pressure (bar)							
(mm2)	(mm)	2	3	4	5	6	7	8	
0.0	0.1		0,4	0,5	0,5	0,6	0,7	0,8	
0.0	0.2		1,5	1,8	2,2	2,5	2,9	3,2	
0.1	0.3		3,3	4,1	4,9	5,7	6,5	7,3	
0.2	0.5		9,1	11	14	16	18	20	
0.8	1.0		36	45	54	63	72	81	
1.8	1.5		82	102	122	142	162	183	
3.1	2.0		145	181	217	252	288	324	
7.1	3.0	245	326	406	487	568	649	730	
12.6	4.0	436	579	723	865	1,010	1,150	1,300	
19.6	5.0	681	905	1,130	1,350	1,580	1,800	2,030	
28.3	6.0	981	1,304	1,630	1,950	2,270	2,600	2,920	
35.8	7.0	1,334	1,774	2,214	2,537	3,092	3,513	3,975	
50.2	8.0	1,750	2,320	2,890	3,460	4,040	4,620	5,190	
63.6	9.0	2,206	2,933	3,659	4,193	5,112	5,836	6,571	
78.5	10.0	2,720	3,620	4,520	5,410	6,310	7,210	8,110	
95.0	11.0	3,295	4,381	5,466	6,264	7,636	8,718	9,815	
113.0	12.0	3,920	5,220	6,500	7,780	9,090	10,400	11,680	
132.7	13.0	4,602	6,119	7,634	8,749	10,665	12,177	13,709	
153.9	14.0	5,337	7,097	8,854	10,146	12,369	14,122	15,899	
176.6	15.0	6,130	8,150	10,200	12,200	14,200	16,200	18,250	
201.0	16.0	6,971	9,269	11,565	13,252	16,155	18,445	20,766	
226.9	17.0	7,870	10,464	13,055	14,961	18,238	20,823	23,443	
254.3	18.0	8,823	11,731	14,636	16,772	20,446	23,345	26,282	
283.4	19.0	9,830	13,071	16,308	18,688	22,781	26,011	29,284	
314.0	20.0	10,900	14,500	18,100	21,700	25,200	28,800	32,400	
346.2	21.0	12,009	15,967	19,922	22,829	27,830	31,775	35,773	
379.9	22.0	13,180	17,524	21,864	25,055	30,543	34,873	39,261	
415.3	23.0	14,405	19,153	23,897	27,385	33,383	38,116	42,912	
452.2	24.0	15,685	20,855	26,020	29,818	36,349	41,502	46,724	
490.6	25.0	17,000	22,600	28,200	33,800	39,500	45,000	50,700	

Reduced performance flow capacity of 10% is applied Consider min. operating pressure (see tech specs on page 5) Consider min. pilot air pressure (see tech specs on page 5)



ASU200 ASU500

ASU2000

ASU5000

ASU13000

ASU15000

Parker Energy Saving Solutions

Companies that use Parker hydraulics, pneumatics, filtration, fluid connectors and electromechanical products enjoy the highest levels of Parker's expertise including program management, training and engineering support.

Air Tools

РЗХ

Designed with air tool applications in mind, the P3X air preparation unit offers advanced nano-mist lubrication ensuring improved productivity through:

- Optimum tool performance.
- Extended tool life.
- Longer intervals between tool services.
- Reduced oil consumption through flow optimisation.



Powertrain

Drive Controlled Pump

- Reducing energy consumption by up to 50%: Replacing conventional hydraulics in machine tool application.
- Solving space constraints by up to 20%: Machine footprint reductions due to overall system efficiency and performance.
- Improved cycle times of up to 36% through increased control.
- Saving cost: Software simulation uses hydraulic footprint snapshot calculations to produce POI data.



Welding Cells

Water Retract Actuator

Significantly reduces water wastage during welding tip changes which helps reduce hazardous water spillages thus improving welding quality.



Electromechanical Products

- Optimising performance, precision and reliability.
- Improving efficiency over conventional technologies.
- **Saving space** with market leading performance.
- One control platform: highly capable motion control solutions, sharing common variable speed drive and hydraulic control platforms. Real multi technology solutions saving energy and simplifying production.

Facilities

Variable Speed Drive

Through the application of Parker's knowledge and experience, the benefits of variable speed drive technology can be applied to:

- Fan, Pump, Hydraulic System and Power Generation.
- Leading the way in Energy Grid-Tie and Storage solutions.
- Energy recovery and savings of up to 50% are placed in your control through Parker system expertise.



Safety Blow Gun: Safe, Clean and Efficient

- 80dB operation
- Automatic pressure reduction
- Up to 40% energy saving

Solved in one product: A simple way to save cost and improve safety.



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