

ONE

 METAL<sup>®</sup>  
WORK  
P N E U M A T I C



1. Air intake, with swivel threaded port
2. Fixing hole
3. Access to filter cartridge
4. Pressure regulation
5. Shut-off valve (manual)
6. Manual override (shut-off valve electrical)
7. Soft start valve regulation
8. Switching pressure regulation
9. Air outlet, with swivel threaded port
10. LED signalling unit ON
11. LED signalling pressure below the value set on pressure switch
12. LED signalling pressure over the value set on pressure switch
13. 5-pin M12x1 electrical connector
14. Pressure gauge
15. 1/4" air intake. Another regulated air intake and a filtered non-regulated air intake are situated on the top
16. Air exhaust with a G 1/4" silencer
17. Condensate tank
18. Condensate drain with G 1/8" thread (for RA only)
19. Clogged filter signal

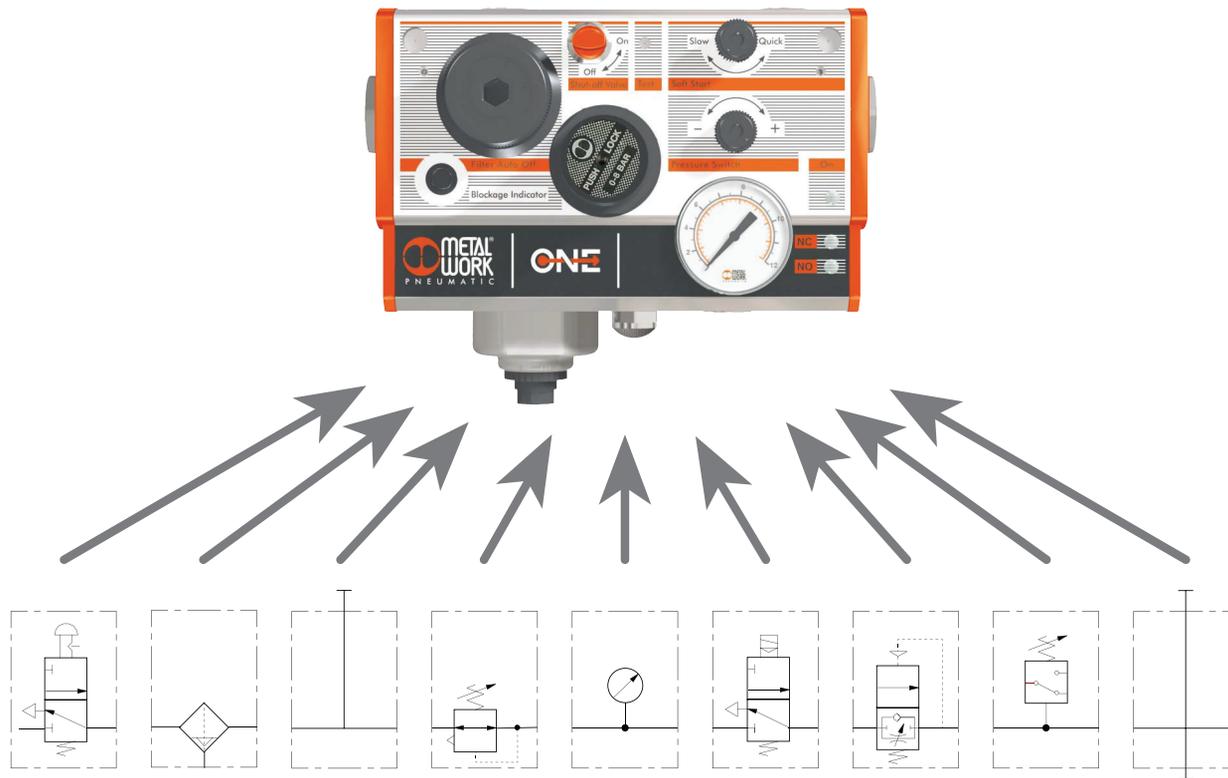




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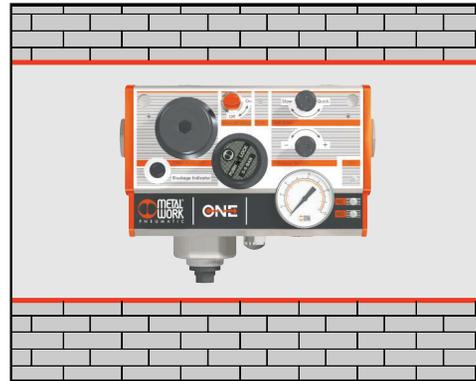
## INTEGRATION

One single unit houses the threaded ports, filter, condensate drain, pressure regulator, shut-off valve, soft start valve, pressure switch and three supplementary air intakes.

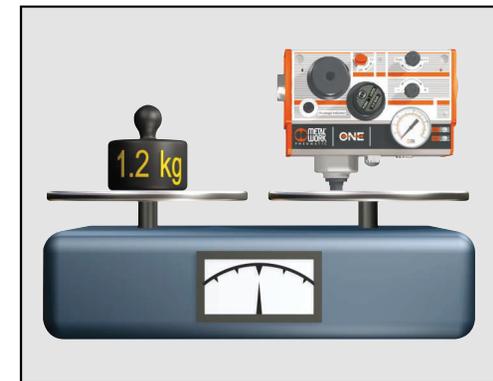




Extremely reduced dimensions, considering the extra-high performance and flow rate reachable.



No clearance is required above and below it to make adjustments or change the filter or other components. The actual space occupied is thus further reduced.



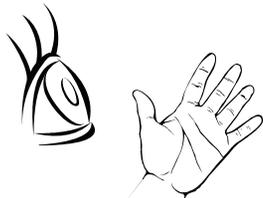
It weighs slightly more than one kilo instead of the 4÷8 kilos of conventional units.



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## EASY ADJUSTMENTS AND LITTLE MAINTENANCE

The entire user interface is at the front, which means that everything is visible and easy to reach. All the adjustments are made using the push-lock knobs (no need for wrenches or screwdrivers), thus preventing accidental operations or manoeuvres.





- The threaded ports at the air intake and outlet are the swivel type to facilitate coupling with the supply and delivery pipes. In this way, the unit can be mounted or removed without dismantling the pipes.
- A range of 5 different threads, 1/4", 3/8", 1/2", 3/4" and 1" is also available.
- The thread for the supply pipe may differ from that of the delivery one.



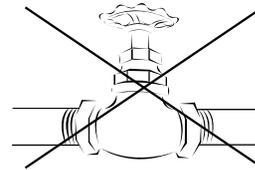


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## FILTER CHANGE

- If the filter gets so clogged up that it causes an excessive drop in pressure as the air passes through, the optical filter blockage indicator will project (see detail A) to indicate that the filter cartridge must be replaced.
- The cartridge can be replaced by unscrewing a plug at the front. This system is functional and, unlike conventional filters, does not require manoeuvring space below the unit.
- An automatic stop on-off valve is incorporated in the unit: when the filter plug is unscrewed, the valve closes automatically. This means there is no need for a tap upstream and there is no risk of the plug being ejected violently.

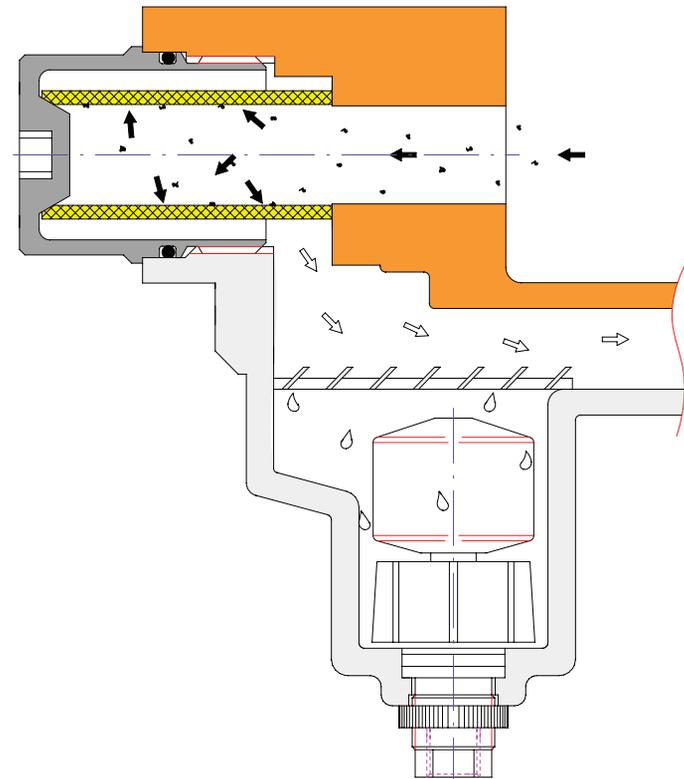




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## CONDENSATE DRAIN

- The condensate drain is located downstream of the filter and thus uses cleaner air. This prevents the known problem of air leaks due to the deposit of dirt on the condensate discharge valve.
- You can request ONE with two types of condensate drain:
  - semi-automatic, type R1MSA
  - automatic, of the floating type RA





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## SINGLE AIR EXHAUST

The air in the circuit is relieved via one outlet situated below the unit and fitted with silencer. If you want to convey air relief to prevent the emission of polluted air into the atmosphere, you can replace the silencer and install a fitting. (a pipe with a diameter of at least 6 mm is recommended)

Next to the air outlet there is the condensate drain, which in the RA version can be connected to the thread with a 1/8" fitting.





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## SUPPLEMENTARY PORTS

In addition to the main outlet, there are three supplementary air ports with a 1/4" thread.

- one for filtered non-regulated air (A) for use, for example, with a compressed air gun.
- two for filtered regulated air (B).

The unit comes complete with supplementary plugged ports for use with A 7 fittings.





ONE can be mounted inside the guard of the machine leaving only the front visible. This is a considerable advantage in terms of functionality and aesthetics as the user interface is entirely at the front. Among the accessories to be ordered separately, there is the kit of brackets for panel mounting.





A standard five-pin M12x1 connector, with IP67 protection is used for the opening solenoid valve and the pressure switch. One cable only is required, thus improving reliability and reducing wiring times.



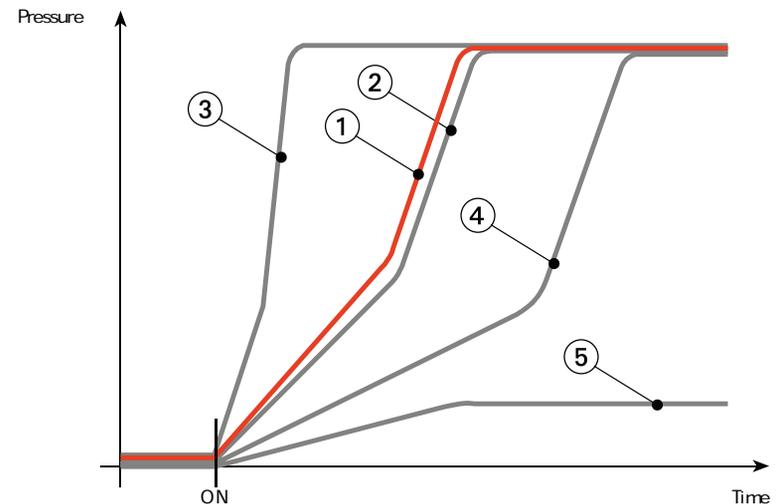



## SOFT START VALVE

The soft start valve is an absolutely innovative feature among the functions provided by ONE. Soft start valve available from the trade are generally based on the principle of leaving the passage of a small amount of air until the downstream pressure reaches a set value, and then opening the passage fully. In this way, the rate at which the pressure increases depends on the flow rate of the utilities, which often feature a continuous flowrate, for example a blow and thus the starter can hardly activate. The solution offered by One is such that the pressure increases gradually and it is independent of the flow rate of the utilities. Pressure increase can be regulated precisely via the knob at the front.

Another piece of news, among the several possible configurations you can have the soft start valve operated by the manual V3V.

- ① Regulation for **ONE**: does not change with flowrate!
- ② Initial regulation of conventional unit
- ③ Low flow rate: activation too abrupt
- ④ High flow rate: activation too slow
- ⑤ Even higher flow rate: never cuts in!





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## HOW TO ORDER ORDERING CODES

You can choose among numerous variants and options. The product code so personalised is made up by compiling the diagram below. The code so compiled must be specified on the order. A label showing the code and its pneumatic diagram is affixed onto the product.

	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>	<b>G</b>	<b>H</b>	<b>I</b>	<b>L</b>	
	ONE electrical or ONE non-electrical	Air intake	Degree of filtration	Clogged filter signal	Condensate drain	Pressure regulation	Valves	Pressure switch	Air outlet	Varius, special version	
<b>EXAMPLE</b>	<b>54</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>7</b>	<b>1</b>	<b>3</b>	<b>0</b>	<b>0</b>
53 ONE non-electric	1 1/4"	2 20µm	0 NO	0 RMSA	2 0,5÷2 bar	0 None	0 NO	1 1/4"	00 Standard		
54 ONE electric*	2 3/8"	5 5µm	1 YES	1 automatic (RA)	4 0,5÷4 bar	1 V3V manual	1 YES	2 3/8"			
	3 1/2"				8 0,5÷8 bar	2 V3V manual with padlock		3 1/2"			
	4 3/4"					3 V3V manual and soft start valve		4 3/4"			
	5 1"					4 V3V manual with padlock and soft start valve		5 1"			
						5 V3V manual and V3V electric					
						6 V3V manual with padlock and V3V electric					
						7 V3V manual and APR electric					
						8 V3V manual with padlock and APR electric					
						9 only V3V electric					
						A only APR electric					

\* a pressure switch version and/or electric V3V and/or electric progressive actuator.

●NB: versions valid only for the electric ONE (code 54...)