

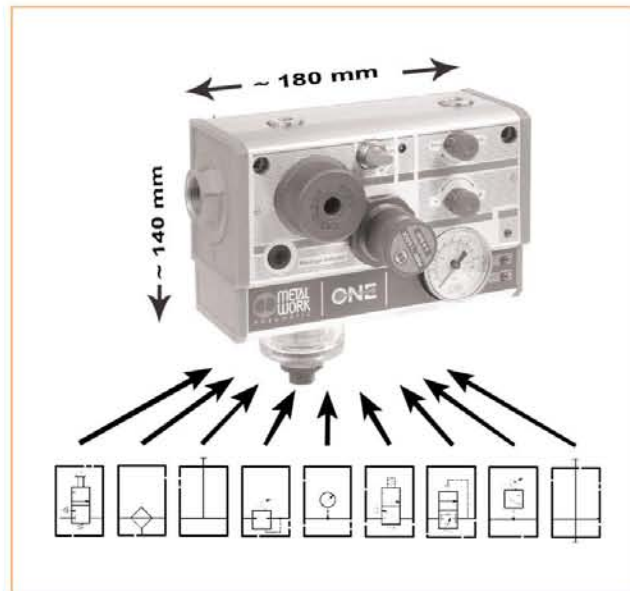


In the world of pneumatics, which is considered mature, it is rare to encounter completely new and different products. "ONE" is a compressed air treatment unit with a high degree of integration, that encompasses numerous pneumatic functions. In fact, it contains so many innovations that a single patent is not enough to safeguard it against imitation - three separate patent applications have been registered with a total of 39 claims. "ONE" has a single high-performance valve on the main flow that handles all the functions from regulation to relief. It is controlled by a high-precision pilot regulator with controlled relief, in series with the manual on-off valve, the electric valve and progressive actuator. Unification of the valve has led to a significant reduction in overall dimensions, enhanced capacity, precision and response speed.



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.

P11

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Standard Stock Units	
Order Code	€
541211881100	284.50
542211881200	284.50
543211881300	287.30
544211881400	292.86
545211881500	298.42

Accessories		
Order Code	Description	€
9200702	Panel Mounting Bracket Kit	13.84
W0970513001	5 Pin Electrical Connector Straight	12.19
W0970513002	5 Pin Electrical Connector Straight with 5mtr Lead	16.59
W0970513003	5 Pin Electrical Connector 90 Degree	12.19
W0970513004	5 Pin Electrical Connector 90 Degree with 5mtr Lead	16.63
9170401	Cover Disassembly Wrench	3.93

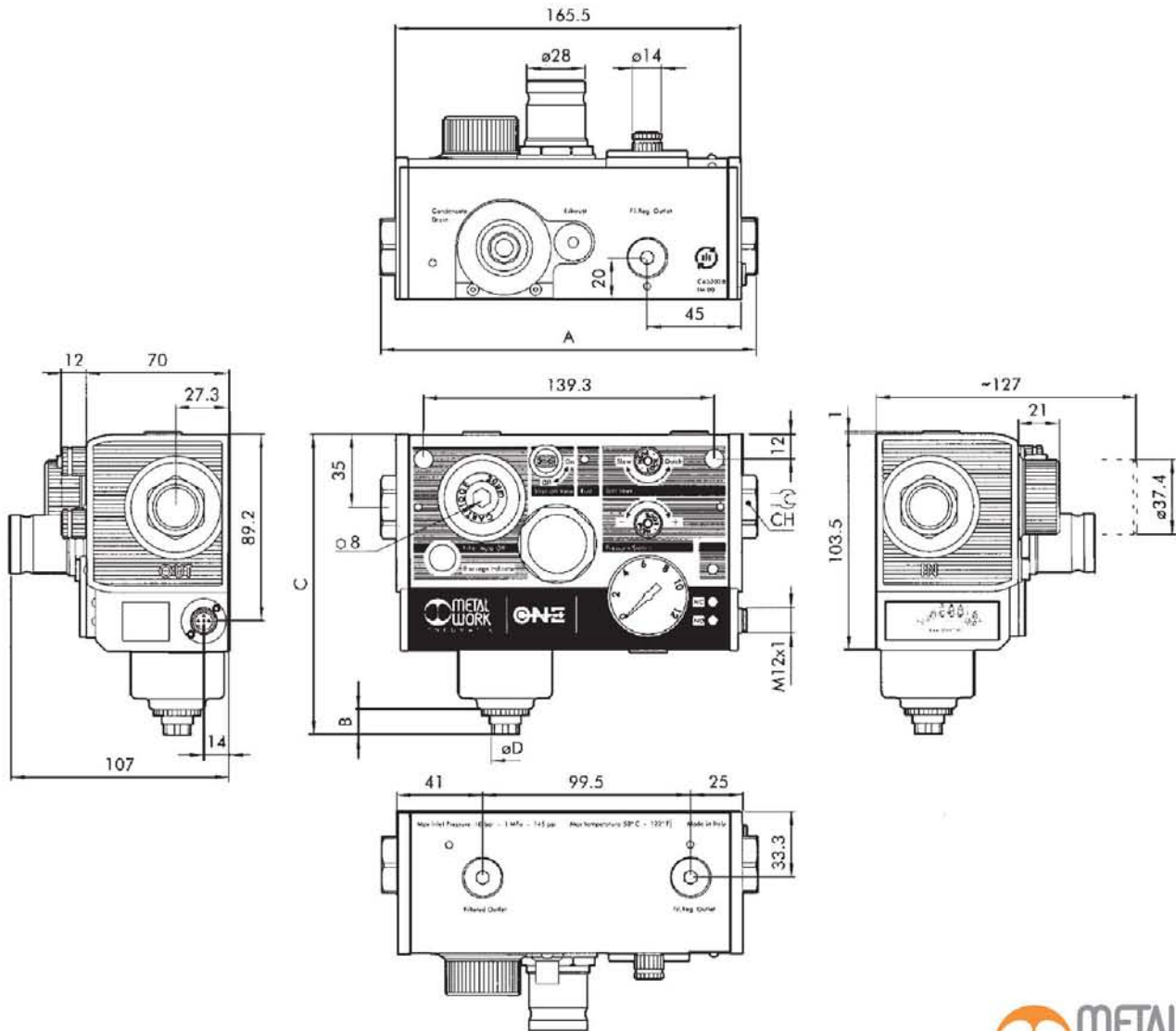
	Technical Data	1/4"	3/8"	1/2"	3/4"	1"
COUPLINGS	Flow rate at 6.3 bar 0.5 bar	NI/min	2200	2900		3600
	Fluid			Compressed air		
	Setting range	bar		0,5 ÷ 2	0,5 ÷ 4	0,5 ÷ 8
HYDRAULICS	Degree of filtration			5 µm or 20µm		
	Maximum inlet pressure			10 bar		
	Operating temperature range	°C		-10 ÷ 50°		
PNEUMATICS	Class of protection			IP 65 with connector		
	Insulation class of the solenoid valve			F155		
	Switching time			100% ED		
	Electrical connector			M12 x 1.5-pin to CEI IEC 60947-5-2		
BOSCH REXROTH PNEUMATICS	Solenoid valve power	W		1,2		
	Solenoid valve voltage	V		24 VDC ± 10%		
	Pressure interval settable on the pressure switch	bar		0,5 ÷ 10		
AIR TREATMENT	Maximum pressure switch current	A		0,5		
	Maximum pressure switch voltage	V		3 ÷ 30 AC/DC		
	Pressure switch contacts			normally open (NO) and normally closed (NC)		
TUBE FITTINGS	Weight	kg		from 1,15 to 1,25 according to configurations		
	Wall fixing (max. panel thickness 10mm)			Front, with M5 x 75 screws or back, with M6 x 70 screws		
				The screws are included in the supply		
HOSETAILS & ADAPTORS	Mounting position			Vertical		
	Direction of flow			from left to right		



What you can see from the outside

- 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
- 9) Air outlet, with swivel threaded port
- 10) LED signalling unit ON
- 11) LED signalling pressure below the valve 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 G1/4" silencer
- 17) Condensate tank
- 18) Condensate drain with G1/8" thread (for RA only)
- 19) Clogged filter signal





	1/4"	3/8"	1/2"	3/4"	1"
A		180		195	
CH	19	22	27	32	36

	RA	RMSA
B	12.2	16.4
C	144	148
øD	15	15

- COUPLINGS
- HYDRAULICS
- PNEUMATICS
- BOSCH REXROTH PNEUMATICS
- AIR TREATMENT
- TUBE FITTINGS
- HOSETAILS & ADAPTORS
- STAINLESS STEEL
- VALVES
- TUBING & HOSECLIPS
- HOSE REELS, PUMPS & GARAGE EQUIPMENT
- AIR, WATER & PAINT GUNS
- VACUUM EQUIPMENT
- COMPRESSED AIR SYSTEMS
- MALLEABLE IRON
- TOOLS & MEASURING
- AIR TOOLS COMPRESSORS
- ENGINEERING MAINTENANCE
- PARTS HANDLING & STORAGE
- ALUMINIUM PROFILE & ACCESSORIES
- SPILL CONTROL

HOW TO ORDER

ORDERING CODES

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

EXAMPLE

	A	B	C	D	E	F	G	H	I	L
	ONE electrical or ONE non-electrical	Air intake	Degree of filtration	Clogged filter	Condensate drain	Pressure regulation (bar)	Valves	Pressure switch	Air outlet Port	Special Versions
	54	3	2	1	1	1	7	1	3	0 0
	53 non-electric	1 1/4"	2 20µm	0 NO	0 RMSA	1 0,5 ÷ 2 bar	0 None	0 NO	1 1/4"	00 Standard
	54 electric*	2 3/8"	5 50µm	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 lockable		3 1/2"	
		4 3/4"					3 V3V manual start valve soft		4 3/4"	
		5 1"					4 V3V manual padlock and soft start valve		5 1"	

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

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

A ONE electric or non-electric

ONE non-electric: there is no component actuated electrically: select code 53. In this case, the unit comes without any M12x1 connector, LED, pressure switch, or electric V3V.

ONE electric: there is at least one component actuated electrically, and thus the pressure switch and/or electric V3V (and/or the electrical soft start valve) select code 54. In this case, the unit comes with the M12x1 connector and 3 LEDs.

Only the LEDs associated with the functions installed will be active.

B Air intake

There are 5 different gas cylindrical threads: 1/4", 3/8", 1/2", 3/4" and 1".

C Degree of filtration

A cartridge with a degree of filtering of 5 µm or 20 µm is available. This value is marked on both the plug and cartridge.

D Clogged filter signal

If the filter gets so clogged up that it causes an excessive drop in pressure as the air passes through, the orange indicator will project from the body by a few millimetres.

E Condensate Drain

RMSA: the condensate is drained out automatically only by relieving the air pull the knurled knob for having the same result.

Automatic (RA): a floating system that automatically drains the condensate out wherever the level of water in the bowl Zreaches the set valve.

F Pressure regulation

There are three possible regulation fields. The valve is marked on the regulation knob.

G Valves (see table across page)

There are 11 different combinations. The electric valves are clearly selectable only if the initial code is 54, i.e. ONE electric.

H Pressure switch

The pressure switch has a switching contact, which means you can have a normally-open signal or a normally-close signal. It is also connected to the NC and NO LEDs which come on if the actual pressure is less or greater than the set pressure, respectively. The LEDs only come on if an electric charge is connected to them.

I Air outlet

Five different gas cylindrical thread are available: 1/4", 3/8", 1/2", 3/4" and 1". It is possible to choose a thread other than the one on the inlet port.

L

Free positions for special executions.

G -Valves

- **0 - No valves present**
- **1 - V3V manual:** is a 3/2 valve that in a set position allow the air to flow and in the other it closes the passage and discharges the pressure downstream.
- **2 - V3V manual with padlock:** like the previous one, with the possibility of inserting a padlock (included in the supply with 2 keys) in the valve closed position.
- **3 - V3V manual and soft start valve:** when the manual V3V is operated, the pressure starts to increase slowly, with a fine adjustable ramp, and when it reaches about 30 - 40% of the set valve, the valve opens completely and the pressure rises to the set valve.
- **4 - V3V manual with padlock and soft start valve:** like the previous, with the padlock device on the manual V3V in "OFF" position.
- **5 - V3V manual and V3V electric:** two V3V in series are present, one is manual and the other electrical. By operating both the valve the air flow is allowed. If one or two are switched OFF, the air downstream is relieved. The electrical one can also be operated manually by reefing pushed the "TEST" button.
- **6 - V3V manual with padlock and V3V electric:** like the previous, with the padlock device on the manual V3V in "OFF" position.
- **7 - V3V manual and APR electric:** One manual V3V and one soft start valve are present. When both are operated, the pressure starts to increase slowly, with a fine adjustable ramp, and when it reaches about 30 - 40% of the set valve, the valve opens completely and pressure rises to the set valve.
- **8 - V3V manual with padlock and APR electric:** like the previous, with the padlock device in "OFF" position.
- **9 - V3V electric: it's present only the electrical V3V.** The valve will open if it is powered on. When the power supply is switched off, the valve closes and air downstream is relieved. The valve will open if it is powered on. When the power supply is switched off, the valve closes and air downstream is relieved. The valve can also be operated manually by keeping pushed the test button.
- **A - APR electric:** it's present only the electric soft start valve. When it is powered ON, the pressure starts to increase slowly, with a fine adjustable ramp, and when it reaches about 30 - 40% of the set valve, the valve opens completely and the pressure rises to the set valve.