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Air filtration systems for use with FORTiS™ encoders

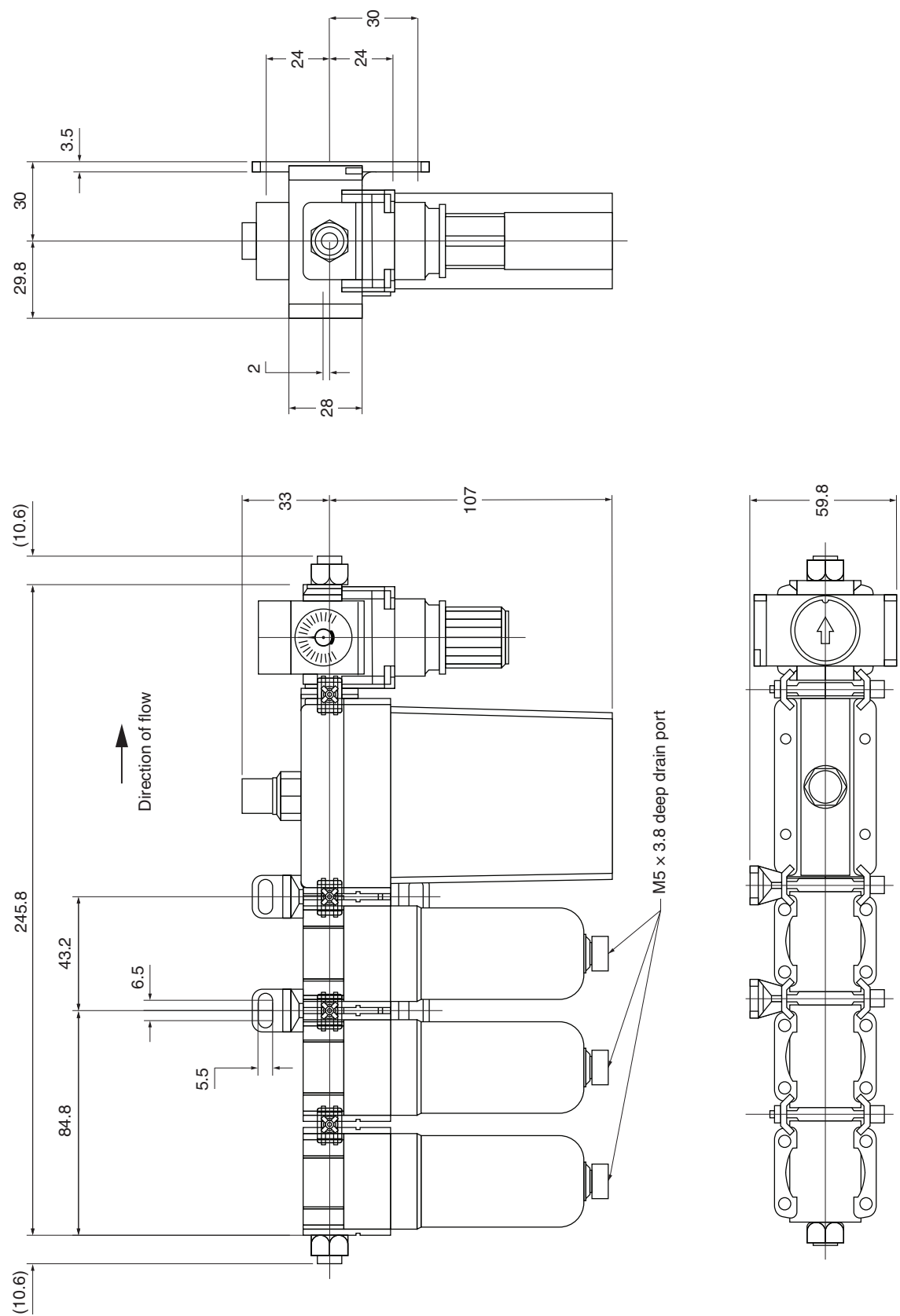


Specification

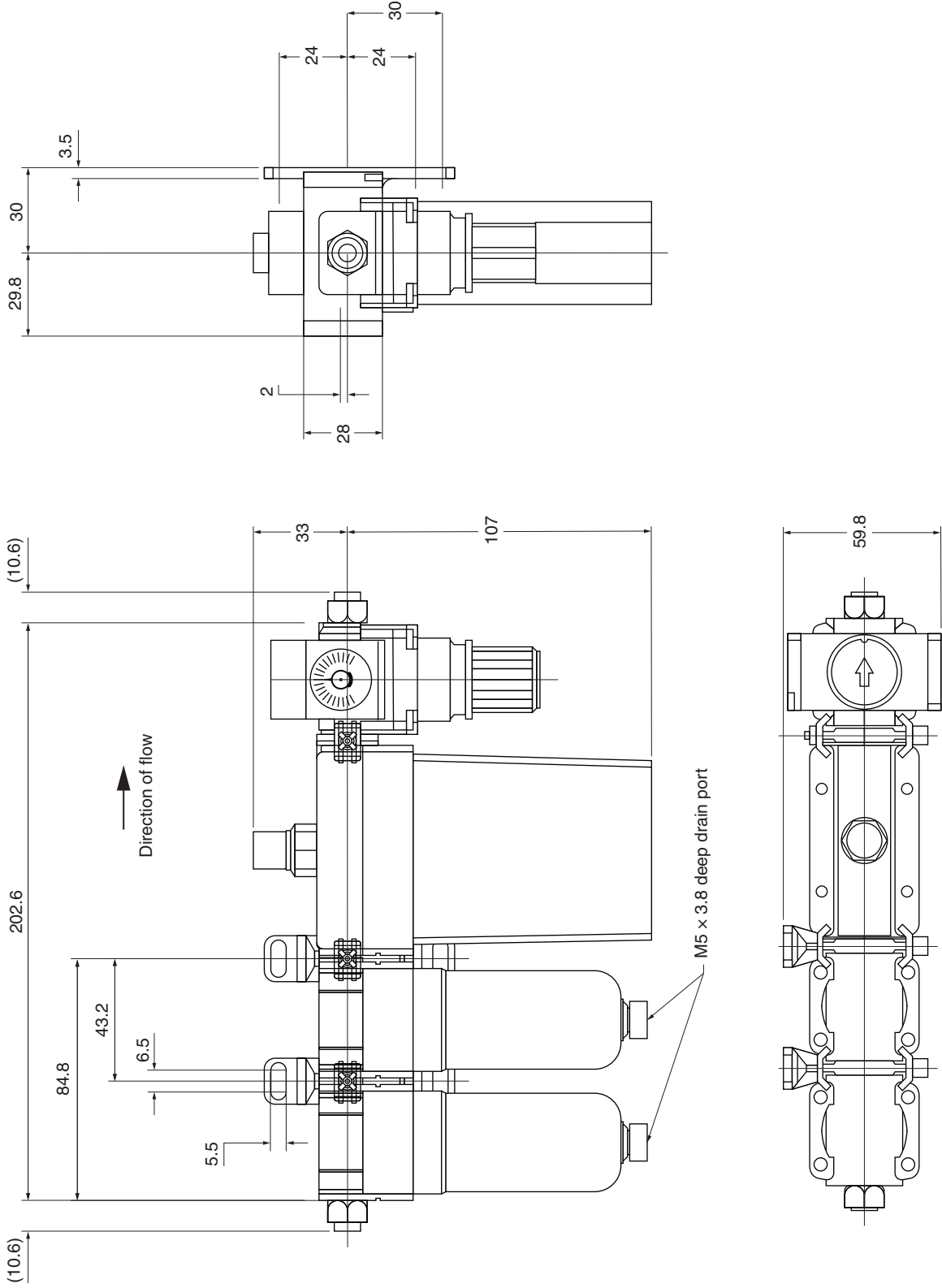
	Full-size air filter	Reduced-size air filter
Part number	A-9768-4353	A-9768-4354
Design	System for cleaning and regulating compressed air for purge of FORTiS™ encoders. A-9768-4353 adds prefilter for longest-life performance when connected to a particularly dirty air supply.	
Connectable encoders	Up to 10 FORTiS linear encoders	
Set-up	• Prefilter: for particle sizes down to 5 µm, automatic condensate drain • Mist separator for dust, oil and water with particle sizes as fine as 0.3 µm, automatic condensate drain • Micro mist separator for particle sizes as fine as 0.01 µm and oil to 0.01 mg/m³ with automatic condensate drain • Dryer to suppress moisture content to a pressure dew point of +3 °C • Pressure regulator for adjusting the output pressure	• Mist separator for dust, oil and water with particle sizes as fine as 0.3 µm, automatic condensate drain • Micro mist separator for particle sizes as fine as 0.01 µm and oil to 0.01 mg/m³ with automatic condensate drain • Dryer to suppress moisture content to a pressure dew point of +3 °C • Pressure regulator for adjusting the output pressure
Overpressure	Operating pressure range: Rating 0.7 MPa Maximum 1.0 MPa Minimum 0.3 MPa	
Purity classes	Airflow in: Class 7:9:4 (ISO 8573-1: 2010) Airflow out: Class 1:4:2 (ISO 8573-1: 2010)	Airflow in: Class 6:8:4 (ISO 8573-1: 2010) Airflow out: Class 1:4:2 (ISO 8573-1: 2010)
Output overpressure	Output pressure can be adjusted from 0.05 MPa to 0.3 MPa and should be set to ensure each encoder has an input pressure of 0.1 MPa (1 bar). See <i>FORTiS air filter assembly mounting instructions</i> Installation guide (Renishaw part no. M-9768-9492) for details.	
Operating temperature	Operating temperature range: –5 °C to +50 °C	
Flow rate	Filter flow rate: maximum 100 l/min @ 0.7 MPa	
Connections	Inlet and outlet ports G1/4 inch Auto drain: M5 × 0.8	
Maintenance	Filter change Up to three encoders connected: two years Up to ten encoders connected: annually	
Mass (approximate)	0.78 kg	0.66 kg

Full-size air filter drawing (A-9768-4353)

Dimensions and tolerances in mm

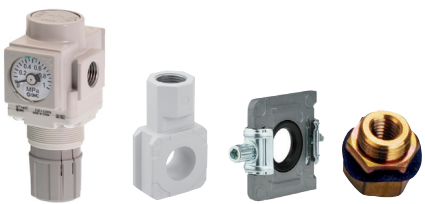


Reduced-size air filter drawing (A-9768-4354)



Extender kits

For users of NC4 tool setting systems and FORTiS encoders on the same machine, it is possible to use the FORTiS air filter (A-9768-4353 or A-9768-4354) and add an extender kit, so a second regulated output is provided for the NC4. Similarly, there is an extender kit to add a second regulated output for FORTiS to the NC4 air filter (A-6435-4000).

EXTENDER KITS	
A-9768-4355	A-9768-4356
Extender kit to add an output for NC4 to the FORTiS air filter	Extender kit to add an output for FORTiS to the NC4 air filter
	

ACCESSORIES, SPARES AND SERVICE PARTS		
	Universal elbow (turns air flow direction 90 degrees)	A-9768-4391 (MOQ = 10)
	180 degree air turn assembly	A-9768-4416
	Air filter service kit for full-size air filter	A-9768-4385
	Air filter service kit for reduced-size air filter	A-9768-4386
	Black PU tubing 6 mm OD, per metre*	A-9768-4388
	One-touch straight union	A-9768-4400 (MOQ = 10)
	One-touch tee union	A-9768-4406 (MOQ = 10)
	PSI gauge kit	A-9768-4387

* To order a 20 metre length of tubing, place an order for quantity 20 of A-9768-4388.

SPARES AND SERVICE PARTS		
	One-touch connector	A-9768-4389 (MOQ = 10)
	T-type spacer	A-9768-4390
	Spacer with bracket	A-9768-4381
	Spacer	A-9768-4384
	FORTiS low pressure regulator	A-9768-4377
	Pressure gauge assembly	A-9768-4409
	Tube cutter	A-9768-4392

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