

Compressed air maintenance unit, series AS3-Inch

Filter regulator AS3-FRE, 3/8 NPT - 1/2 NPT, ATEX approved

AVENTICS®



Technical Data

Type	Filter Pressure regulator	Filter element replaceable Diaphragm-type pressure regulator with relief opening and reverse flow capability Lockable regulator knob
Supply pressure	Condensate drain	semi-automatic: 7 ... 232 psi fully automatic: 21 ... 232 psi
Secondary pressure		See table
Nominal flow Q _n		See table
Secondary pressure = 91 psi and Δp = 15 psi		
Ambient temperature		-10° to +50 °C (14 °F ... 122 °F) *
Medium		Compressed air
Weight		See table
Installation position		Vertical
Materials	Body Thread insert Reservoir Bowl guard Cover Filter element	Polyamide, seals Buna-N(NBR) Die-cast zinc Polycarbonate or die cast zinc, with bayonet catch Polyamide (polycarbonate bowls only) ABS Polyethylene
Reservoir capacity		49 cm ³ (1.6 US Fl oz) (semi-automatic)
Filter porosity		5 μm
ATEX	In zone 1 (gas-ex, category 2G) In zone 21 (dust-ex, category 2D) In zone 2 (gas-ex, category 3G) In zone 22 (dust-ex, category 3D)	

* with dried air

Filter for separating solid impurities up to 5 μm from compressed air and gases

For quality classes according to DIN ISO 8573-1

- Solid impurities: class 3

- Humidity - water content: class 8

Plastic containers may only be cleaned with water, soap suds, and other similar, neutral agents.

Note: All Series AS filter drains include a manual drain function as standard.



Part no.

Symbol	Threaded ports	Nominal flow Q _n [CFM]	Secondary pressure [psi]	Options	Weight [lbs.]	Part no. with pressure gauge (Poly./Metal)
	3/8 NPT	151	7 ... 116	Polycarbonate w/guard or metal bowl, semi-automatic, w/out pressure: open	1.451	R432001988/R432002135
	3/8 NPT	151	21 ... 116	Polycarbonate w/guard or metal bowl, fully automatic, w/out pressure: open	1.559	R432001989/R432002136
	3/8 NPT	151	0 ... 116	Polycarbonate w/guard or metal bowl, fully automatic, w/out pressure: closed	1.559	R432001990/R432002137
	1/2 NPT	183	7 ... 116	Polycarbonate w/guard or metal bowl, semi-automatic, w/out pressure: open	1.451	R432001991/R432002141
	1/2 NPT	183	21 ... 116	Polycarbonate w/guard or metal bowl, fully automatic, w/out pressure: open	1.559	R432001992/R432002142
	1/2 NPT	183	0 ... 116	Polycarbonate w/guard or metal bowl, fully automatic, w/out pressure: closed	1.559	R432001993/R432002143

Part no.

Symbol	Threaded ports	Nominal flow Q _n [CFM]	Secondary pressure [psi]	Options	Weight [lbs.]	Part no. without pressure gauge (Poly./Metal)
	3/8 NPT	151	7 ... 116	Polycarbonate w/guard or metal bowl, semi-automatic, w/out pressure: open	1.292	R432001976/R432002122
	3/8 NPT	151	21 ... 116	Polycarbonate w/guard or metal bowl, fully automatic, w/out pressure: open	1.400	R432001977/R432002123
	3/8 NPT	151	0 ... 116	Polycarbonate w/guard or metal bowl, fully automatic, w/out pressure: closed	1.400	R432001978/R432002124
	1/2 NPT	183	7 ... 116	Polycarbonate w/guard or metal bowl, semi-automatic, w/out pressure: open	1.292	R432001979/R432002128
	1/2 NPT	183	21 ... 116	Polycarbonate w/guard or metal bowl, fully automatic, w/out pressure: open	1.400	R432001980/R432002129
	1/2 NPT	183	0 ... 116	Polycarbonate w/guard or metal bowl, fully automatic, w/out pressure: closed	1.400	R432001981/R432002130

Nominal flow at inlet pressure 91 psi and 15 psi drop (P₁ = 6.3 bar, ΔP = 1 bar)

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49

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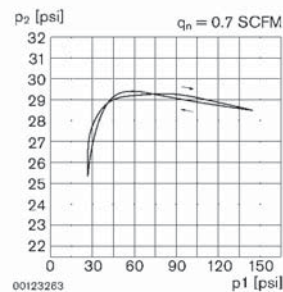
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▲ Accessories (to be ordered separately)

	Accessory	Part no.
	Filter element, 5 µm	1829207068
	Pressure regulator valve seal kit	R961400144
	Mounting plate AS3-MBR-...-W01	R432031072
	Mounting strap AS3-MBR-...-W03	R412007370
	Block assembly kit AS3-MBR-...-W04	R412007371
	Mounting flange kit (3/8 inch) AS3-MBR-N038...-W05	R432002017
	Mounting flange kit (1/2 inch) AS3-MBR-N012...-W05	R432002018
	Control panel nut AS3-MBR-...-W06	R412007372

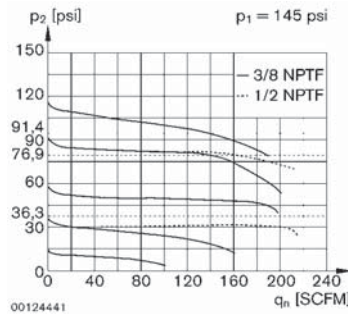
See accessories for filter reservoirs

Pressure characteristics curve



p_1 = Supply pressure; p_2 = Secondary pressure; q = Flow rate

Flow rate characteristic (setting range p_2 : 7 ... 116 psi)



p_1 = Supply pressure; p_2 = Secondary pressure; q_n = Nominal flow; q = Flow rate

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