# ARO-Flo Series

Filters, regulators, and lubricators

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# **ARO**-Flo Series

For more than 100 years, Ingersoll Rand ARO has been an industry leader in the design and manufacture of compressors, pneumatic tools, and

air preparation equipment. Clean air is a key ingredient that enables effective and efficient operation of tools, equipment, and machinery in almost every industry. As such, the use of air preparation devices, such as filters, regulators, and lubricators (FRLs) is an excellent means of keeping your air supply in top condition, as well as enabling your tools and equipment to operate at their peak performance. The new ARO-Flo Series FRLs continue the tradition of offering premium products for your operation, and also raises the bar in the industry for safety, flow performance, and modularity.

## **Safety:**

Providing safe tools and equipment is our top priority. ARO-Flo Series FRLs are designed with integrated safety features such as locking bowls and clear multilingual markings. Accessories such as lockout valves, check valves, and soft-start valves allow the air supply to be safely managed and controlled.



**Performance:** ARO-Flo Series FRLs set the standard for flow performance. Simply put, air flows better through ARO-Flo filters, regulators, and lubricators than almost any other other air filtration device. This means less air is choked during the air preparation process, and your equipment can perform at its peak performance.

#### **Modularity:**

All ARO-Flo accessories are designed to integrate with each other within each size range. From pipe adapters to T-brackets, your complete FRL assembly and its individual components can be easily, safely, and quickly assembled or disassembled with a minimum of tools — no fuss or complications, even with fixed piping.

#### Best in class

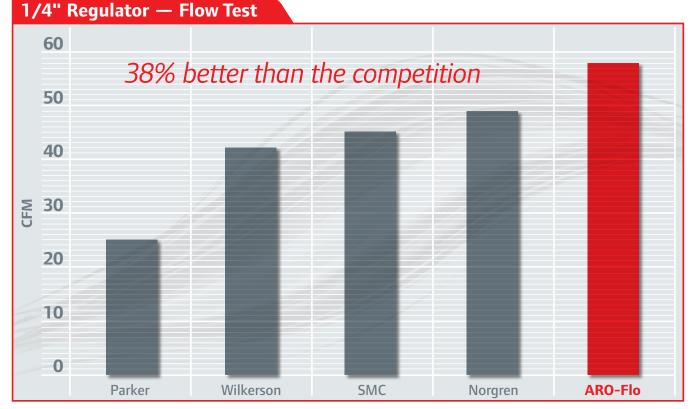
#### The following regulators were put through head-to-head tests to determine how they compare with the new ARO-Flo Series.

Manufacturer	Model Number	Flow Rate
Parker	14R118F	27 cfm
Wilkerson®	R08-02-F0G0	44 cfm
SMC <sup>®</sup>	AR20-N02E-Z	48 cfm
Norgren	R72G-2AK-RMG	51 cfm
ARO-Flo	R37121-620	59 cfm



How did we do? On average, the ARO-Flo 1/4" 1000 Series regulator *flowed 38 percent better than the competition*. All regulators were tested under the same conditions, and all units were new — right out of the box.

R37121-620



Test parameters: 100 psi inlet pressure, 90 psi set pressure, and 33 psi drop

This is not the largest 1/4" regulator in the ARO-Flo Series, but rather the smallest. How did we do it? We designed the ARO-Flo Series from the ground up to allow air to pass through the units with a minimum of flow loss. The bottom line: If you want superior flow in your application, you can't miss with the new ARO-Flo Series.

To obtain the actual test report, email your request to arowebleads.com.

## Features and benefits

By utilizing a modular – lockout valve the user can close off the downstream air supply for maintenance and pressure isolation. Units are threaded for direct plumbing or can be installed in the modular arrangement. Optional filter life indicator — works off of pressure differential to show a visible alert when the filter needs replacement.

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The ARO soft-start

valve allows system

gradually, protecting

and creating a safer

start-up condition.

downstream equipment

pressure to build

A T-bracket wall mount is standard on all combo units. The settable gauge – fan is a visual reference that allows the user to display the specific pressure range that is needed for their application.

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Use of modular threaded pipe adapters allow for ease of service by allowing a unit to be quickly removed from the air line. Adapters can be used to pipe different thread sizes in the plumbing setup.

#### **Spares and Accessories**

See our accessories catalog or go to our Web site for the complete selection of accessories for your application.



Refurb kits 104302



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Mounting brackets 104409





A panel nut

all ARO-Flo

is standard on

regulators and piggybacks.

Pressure switch 104415

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The pressure switch is typically threaded into a manifold port block, and allows the sensing of high or low pressure thresholds set by the user. The oil drip rate is controlled by adjusting the sight dome adjustment screw in a clockwise or counterclockwise direction.

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The auto-fill option is standard on all ARO-Flo lubricators. Lubricating oil can be added while lubricators are under pressure.

The ARO-Flo check valve is typically installed downstream of the regulator. It is used to help prevent downstream pressure from moving upstream of the valve in the event of upstream pressure loss.

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Optional tamper kit installs in seconds and prevents adjustment of the regulated pressure. The positive locking thumb switch engages with an audible click, and visually aligns to the locking symbols.

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- The installation of a manifold port block enables design flexibility by allowing clean, regulated air to be diverted to other applications.



Gauges 104334



Manifold block kit 104413-3-2



Lubricating oil 29665



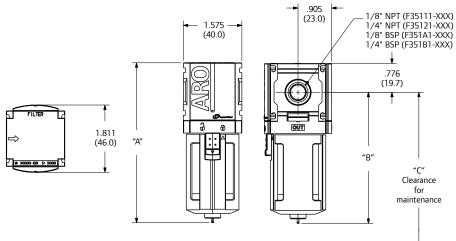
# 1000 Series filters

1/8" and 1/4" Ports

Technical data			
Polycarbonate bowl	Polycarbonate		
Polycarbonate bowl guard	Nylon		
Metal bowl	Aluminum		
Filter body	Aluminum		
Manual drain	Brass + nitrile		
Auto drain	Acetal		
Standard filter	Polyethylene		
Coalescing filter	HEPA paper + felt		
Seals	Nitrile		
Filter baffle	Acetal		
	POLYCARBONATE BOWL	METAL BOWL	
Max inlet pressure (psi)	150	250	
Temperature range (F)	23 - 125	23 - 175	
Bowl cap — manual drain (oz)	0.5	0.4	
Bowl cap — auto drain (oz)	0.7	0.7	
Bowl cap — coal manual drain	0.3		
		0.5	
Bowl cap — coal auto drain	0.5	5	
Bowl cap — coal auto drain *Flow capacity — 1/8" port	0.5 38 sc		
		fm	

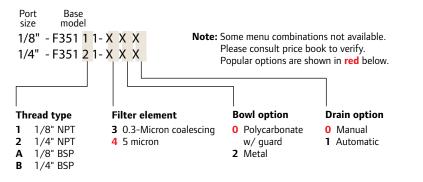


\*Inlet pressure 90 psi (6.2 bar) with 10 psi drop (0.7 bar)

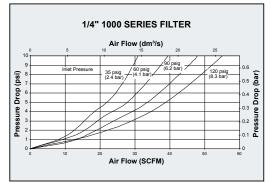


MODELS	A (MM)	B (MM)	C (MM)	BOWL OPTION	DRAIN OPTION
F351X1-XX0	4.303 (109.3)	3.528 (89.6)	5.102 (129.6)	N/A	MANUAL
F351X1-X01	5.016 (127.4)	4.240 (107.7)	5.815 (147.7)	POLYCARBONATE W/ GUARD	AUTOMATIC
F351X1-X21	4.992 (126.8)	4.217 (107.1)	5.791 (147.1)	METAL	AUTOMATIC

To configure the desired part number, use the chart below to select the port size, thread type, and configuration options.



#### 1/4" Pressure drop test



See page 77 for additional flow charts

#### **Popular configurations**

Port size NPT	Filter type	Bowl cap (oz)	Element (microns)	Model	
MANUAL DI	MANUAL DRAIN • METAL BOWL				
1/8"	Coalescing	0.3	0.3	F35111-320	
1/8"	Standard	0.4	5	F35111-420	
1/4"	Coalescing	0.3	0.3	F35121-320	
1/4"	Standard	0.4	5	F35121-420	
MANUAL DI	RAIN • POLYCARE	BONATE BOWL W	/ GUARD		
1/8"	Coalescing	0.3	0.3	F35111-300	
1/8"	Standard	0.5	5	F35111-400	
1/4"	Coalescing	0.3	0.3	F35121-300	
1/4"	Standard	0.5	5	F35121-400	
AUTO DRAI	N • METAL BOWL				
1/8"	Coalescing	0.5	0.3	F35111-321	
1/8"	Standard	0.7	5	F35111-421	
1/4"	Coalescing	0.5	0.3	F35121-321	
1/4"	Standard	0.7	5	F35121-421	
AUTO DRAIN • POLYCARBONATE BOWL W/ GUARD					
1/8"	Coalescing	0.5	0.3	F35111-301	
1/8"	Standard	0.7	5	F35111-401	
1/4"	Coalescing	0.5	0.3	F35121-301	
1/4"	Standard	0.7	5	F35121-401	



Replacement parts		
MODEL	DESCRIPTION	
104293	Replacement auto drain*	
104294	Replacement manual drain	
104295	5-Micron element	
104296	40-Micron element	
104297	0.3-Micron element	
104298	Poly bowl, manual drain	
104299	Poly bowl, auto drain	
104300	Metal bowl, manual drain	
104301	Metal bowl, auto drain	
104468	Filter bowl service kit (O-ring)	
104459	Coalescing filter bowl, manual drain	
104460	Coalescing filter bowl, auto drain	
* Replacement a	uto drains can only be used with auto drain bowls.	

Accessories	See page 65 for details
MODEL	DESCRIPTION
104390-1	1/8" NPT lockout valve
104390-2	1/4" NPT lockout valve
104394	Modular clamp
104474-1	1/8" NPT pipe adapter
104474-2	1/4" NPT pipe adapter
104477-1	1/8" Check valve
104477-2	1/4" Check valve
104399	T-type wall mount
104403	L-type wall mount
104407	C-type wall mount
104411-1-1	1/8" x 1/8" Manifold block
104411-2-2	1/4" x 1/4" Manifold block