Pneumatic Air Preparation - AF Series Filters

Modular Assembly Example
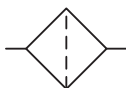

AF-663 **AF-323** **AF-213**

Mounting bracket included.

Air Filter

NITRA™ pneumatic particulate and moisture separation air filters are available with 1/8″, 1/4″, 3/8″, 1/2″, 3/4″ or 1″ NPT female port sizes to meet a broad range of pneumatic air supply filtration applications. Available with either a semi-automatic or automatic drain, polycarbonate bowls are standard on 1/8″ through 1/2″ NPT sizes, with metal bowl guards provided on 1/4″ through 1/2″ NPT sizes. The 3/4″ and 1″ NPT sizes feature all-metal bowl construction with sight gauges. Replaceable 40 micron filter elements are standard. An optional 5 micron filter element (purchased separately and customer installable) is available when stricter filtration is required. Provided with a mounting bracket for stand-alone applications, the modular design also enables easy field assembly for combining with NITRA pneumatic regulators and lubricators (using modular assembly brackets purchased separately).
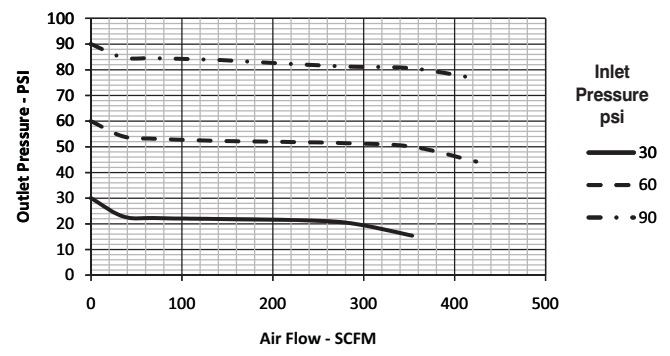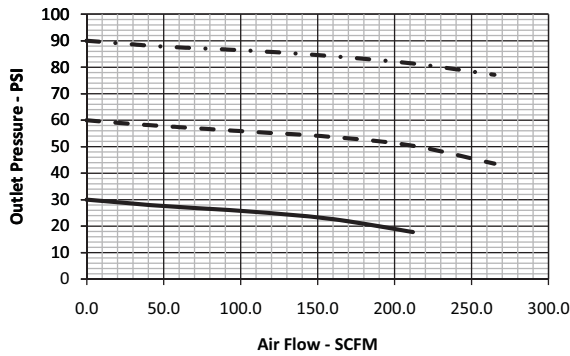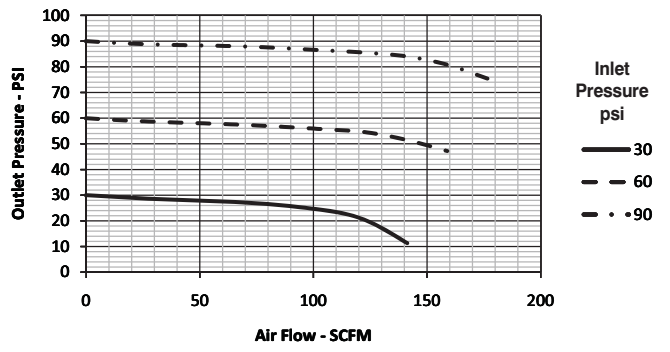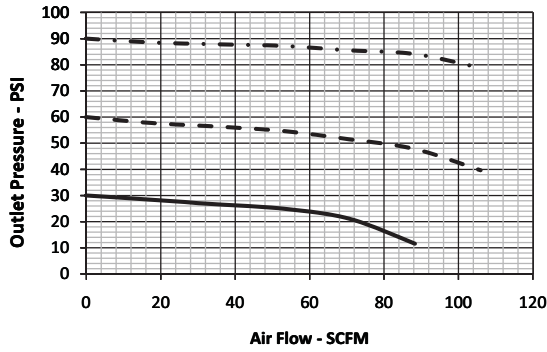
Features

- 1/8″, 1/4″, 3/8″, 1/2″, 3/4″ and 1″ NPT female port sizes
- 40 micron replaceable filter element standard; for stricter filtration an optional 5 micron filter element purchased separately is easily customer installable
- Polycarbonate bowls standard with metal bowl guards (except 1/8″ NPT size);. 3/4″ and 1″ sizes provided with all-metal bowl construction with sight gauge
- Semi-automatic or automatic drains available
- Mounting bracket provided for stand-alone applications
- Modular design enables easy field assembly for combining with NITRA regulators and lubricators
- 2 year warranty

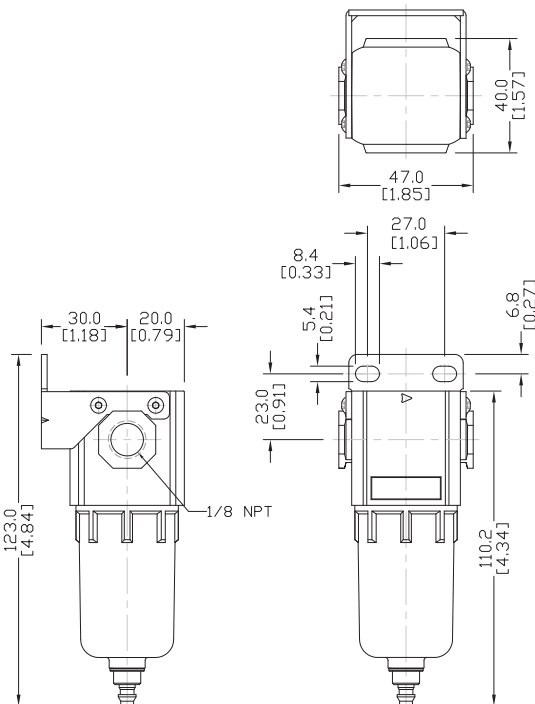| AF Series Filters										
Part No.	Price	Weight (lbs)	Port Size	Fluid	Temperature	Filtering Grade	Operating Pressure	Proof Pressure	Drain Bowl	Drain Type
AF-213	<--->	0.3	1/8"	Air	23~140°F (-4~60°C)	40µ (5µ element can be ordered separately and field installed)	20~115psi (0.15~0.8MPa) (1.5~8.0 bar)	215psi (1.5MPa) (15.0 bar)	10cc Polycarbonate	Semi-automatic
AF-323	<--->	0.8	1/4"						40cc Polycarbonate with metal bowl guard	
AF-323-A	<--->	0.8								Automatic
AF-333	<--->	0.8	3/8"							Semi-automatic
AF-333-A	<--->	0.8								Automatic
AF-443	<--->	1.5	1/2"						80cc Polycarbonate with metal bowl guard	Semi-automatic
AF-443-A	<--->	1.5								Automatic
AF-663	<--->	3.1	3/4"						230cc Metal with sight glass	Semi-automatic
AF-663-A	<--->	3.1								Automatic
AF-683	<--->	3.1	1"							Semi-automatic
AF-683-A	<--->	3.1								Automatic

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AC Motors
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Motor Controls
Proximity Sensors
Photo Sensors
Limit Switches
Encoders
Current Sensors
Pressure Sensors
Temp. Sensors
Pushbuttons/ Lights
Process
Relays/ Timers
Comm.
Terminal Blocks & Wiring
Power
Circuit Protection
Enclosures
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Pneumatics
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Performance Charts
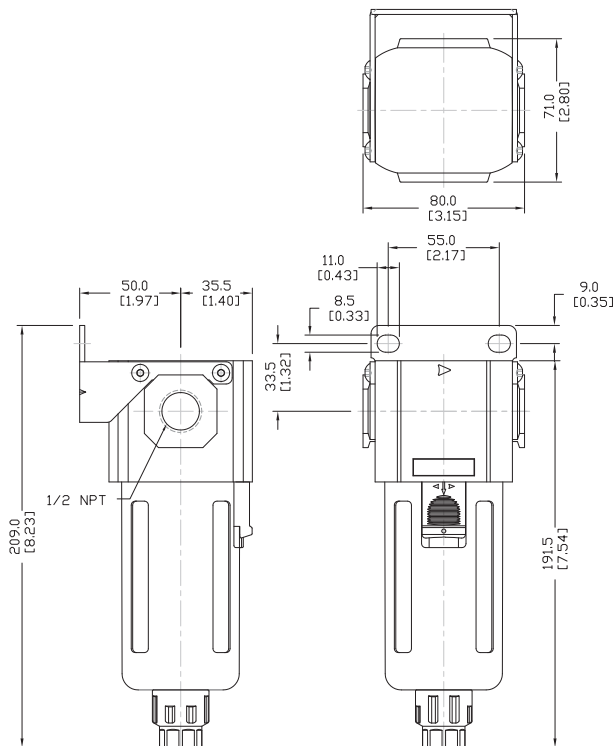
AF-213

Outlet Pressure - PSI vs Air Flow - SCFM

Inlet Pressure psi
- 30.0
- 60.0
- 90.0

AF-3x

Outlet Pressure - PSI vs Air Flow - SCFM

Inlet Pressure psi
- 30
- 60
- 90

AF-443x

Outlet Pressure - PSI vs Air Flow - SCFM

Inlet Pressure psi
- 30
- 60
- 90

AF-6x

Outlet Pressure - PSI vs Air Flow - SCFM

Inlet Pressure psi
- 30
- 60
- 90

Dimensions

AF-213

40.0 [1.57]

47.0 [1.85]

27.0 [1.06]

8.4 [0.33]

5.4 [0.21]

6.8 [0.27]

30.0 [1.18]

20.0 [0.79]

23.0 [0.91]

123.0 [4.84]

110.2 [4.34]

1/8 NPT

Dimensions in mm [inches]

Pneumatic Air Preparation - AF Series Filters

Dimensions

AF-3x

53.4 [2.10]
60.0 [2.36]

41.0 [1.61]
26.7 [1.05]
40.0 [1.57]
8.0 [0.31]
11.9 [0.47]
6.5 [0.26]
27.0 [1.06]
1/4 NPT
182.0 [7.17]
164.0 [6.46]

AF-443x

71.0 [2.80]
80.0 [3.15]

50.0 [1.97]
35.5 [1.40]
55.0 [2.17]
11.0 [0.43]
8.5 [0.33]
9.0 [0.35]
33.5 [1.32]
1/2 NPT
209.0 [8.23]
191.5 [7.54]

Note: Unit dimensions are the same for listed models; port NPT varies based on model. See specification tables for port NPT size.

Dimensions in mm [inches]

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Limit Switches

Encoders

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Pressure Sensors

Temp. Sensors

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Dimensions

AF-6x

88.6 [3.49]
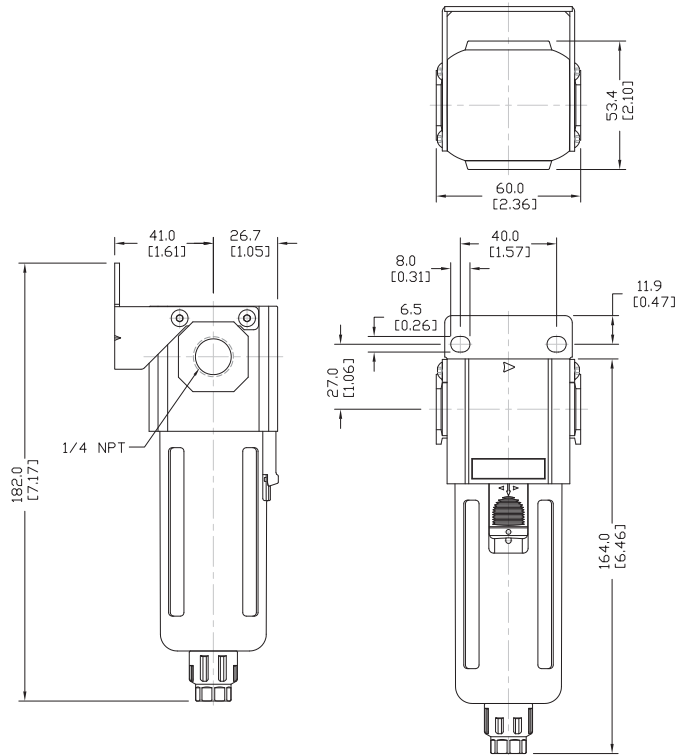
99.0 [3.90]

66.0 [2.60]

13.0 [0.51]

11.0 [0.43]

11.0 [0.43]

70.0 [2.76]

44.3 [1.74]

50.0 [1.97]

3/4 NPT

279.7 [11.01]

218.7 [8.61]

255.7 [10.07]

Note: Unit dimensions are the same for listed models; port NPT varies based on model. See specification tables for port NPT size.

Dimensions in mm [inches]
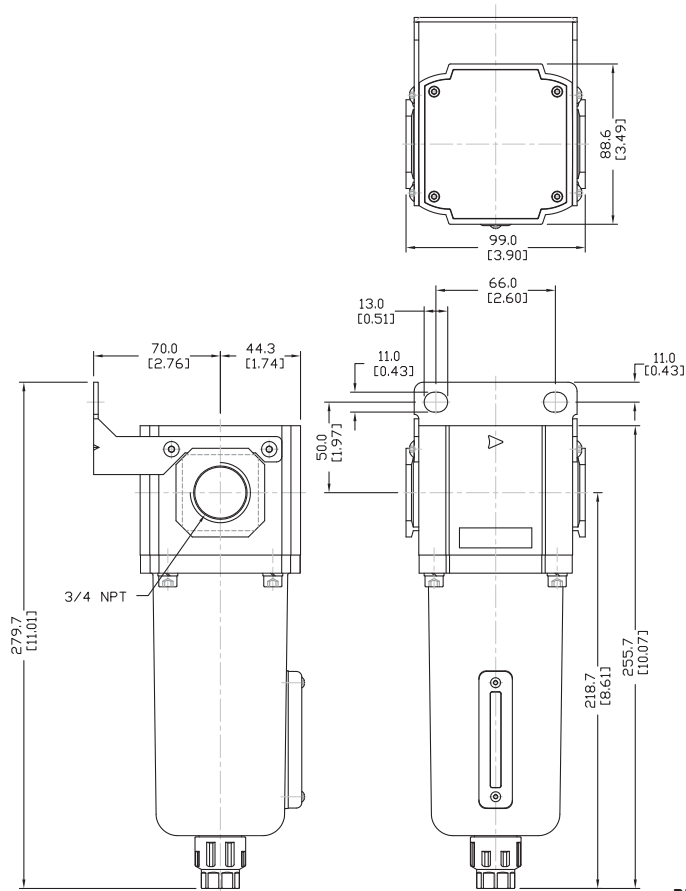
Part No.	Price	Description	Weight (lbs)
AB-2T	<--->	NITRA (tm) pneumatic modular assembly and mounting T-bracket with two mounting tangs, used to assemble and mount individual NITRA AF-2 series filters, AR-2 series regulators, AL-2 series lubricators and AFR-2 series filter/regulators as a combined unit	0.2
AB-2L	<--->	NITRA (tm) pneumatic modular assembly and mounting L-bracket with one mounting tang, used to assemble and mount individual NITRA AF-2 series filters, AR-2 series regulators, AL-2 series lubricators and AFR-2 series filter/regulators as a combined unit	0.2
AB-2U	<--->	NITRA (tm) pneumatic modular assembly U-bracket (no mounting tangs), used to assemble individual AF-2 series filters, AR-2 series regulators, AL-2 series lubricators and AFR-2 series filter/regulators as a combined unit	0.1
AB-3T	<--->	NITRA (tm) pneumatic modular assembly and mounting T-bracket with two mounting tangs, used to assemble and mount individual NITRA AF-3 series filters, AR-3 series regulators, AL-3 series lubricators and AFR-3 series filter/regulators as a combined unit	0.3
AB-3L	<--->	NITRA (tm) pneumatic modular assembly and mounting L-bracket with one mounting tang, used to assemble and mount individual NITRA AF-3 series filters, AR-3 series regulators, AL-3 series lubricators and AFR-3 series filter/regulators as a combined unit	0.3
AB-3U	<--->	NITRA (tm) pneumatic modular assembly U-bracket (no mounting tangs), used to assemble individual NITRA AF-3 series filters, AR-3 series regulators, AL-3 series lubricators and AFR-3 series filter/regulators as a combined unit	0.2
AB-4T	<--->	NITRA (tm) pneumatic modular assembly and mounting T-bracket with two mounting tangs, used to assemble and mount individual NITRA AF-4 series filters, AR-4 series regulators, AL-4 series lubricators and AFR-4 series filter/regulators as a combined unit	0.5
AB-4L	<--->	NITRA (tm) pneumatic modular assembly and mounting L-bracket with one mounting tang, used to assemble and mount individual NITRA AF-4 series filters, AR-4 series regulators, AL-4 series lubricators and AFR-4 series filter/regulators as a combined unit	0.5
AB-4U	<--->	NITRA (tm) pneumatic modular assembly U-bracket (no mounting tangs), used to assemble individual NITRA AF-4 series filters, AR-4 series regulators, AL-4 series lubricators and AFR-4 series filter/regulators as a combined unit	0.4
AB-6T	<--->	NITRA (tm) pneumatic modular assembly and mounting T-bracket with two mounting tangs, used to assemble and mount individual NITRA AF-6 series filters, AR-6 series regulators, AL-6 series lubricators and AFR-6 series filter/regulators as a combined unit	1.3
AB-6L	<--->	NITRA (tm) pneumatic modular assembly and mounting L-bracket with one mounting tang, used to assemble and mount individual NITRA AF-6 series filters, AR-6 series regulators, AL-6 series lubricators and AFR-6 series filter/regulators as a combined unit	1.2
AB-6U	<--->	NITRA (tm) pneumatic modular assembly U-bracket (no mounting tangs), used to assemble individual NITRA AF-6 series filters, AR-6 series regulators, AL-6 series lubricators and AFR-6 series filter/regulators as a combined unit	0.8
AFE-23	<--->	NITRA (tm) replacement filter element, tin-copper, 40 micron, for AF-2 series filters or AFR-2 series filter/regulators	0.1
AFE-33	<--->	NITRA (tm) replacement filter element, tin-copper, 40 micron, for AF-3 series filters or AFR-3 series filter/regulators	0.1
AFE-43	<--->	NITRA (tm) replacement filter element, tin-copper, 40 micron, for AF-4 series filters or AFR-4 series filter/regulators	0.1
AFE-63	<--->	NITRA (tm) replacement filter element, tin-copper, 40 micron, for AF-6 series filters or AFR-6 series filter/regulators	0.4
AFE-21	<--->	NITRA (tm) replacement filter element, fiber, 5 micron, for AF-2 series filters or AFR-2 series filter/regulators	0.1
AFE-31	<--->	NITRA (tm) replacement filter element, fiber, 5 micron, for AF-3 series filters or AFR-3 series filter/regulators	0.1
AFE-41	<--->	NITRA (tm) replacement filter element, fiber, 5 micron, for AF-4 series filters or AFR-4 series filter/regulators	0.1
AFE-61	<--->	NITRA (tm) replacement filter element, tin-copper, 5 micron, for AF-6 series filters or AFR-6 series filter/regulators	0.4

Part No. AB-4T

Part No. AB-4L
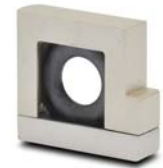
Part No. AB-4U

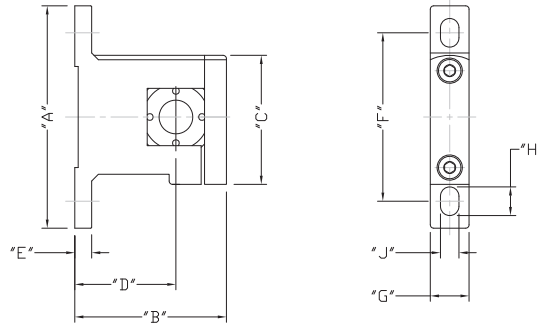**Part No. AFE-43**

Part No. AFE-41

Dimensions

AB-xT

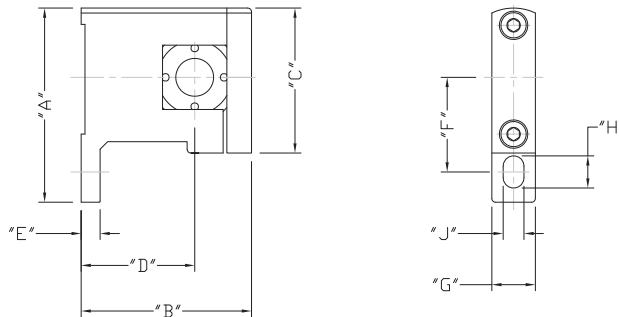| TABLE 1								
PART NUMBER	DIM "A"	DIM "B"	DIM "C"	DIM "D"	DIM "E"	DIM "F"	DIM "G"	DIM "H"	DIM "J"
AB-2T	66.0 [2.60]	45.0 [1.77]	38.3 [1.51]	30.0 [1.18]	5.0 [0.20]	50.0 [1.97]	11.5 [0.45]	8.5 [0.33]	5.5 [0.22]
AB-3T	88.0 [3.46]	60.5 [2.38]	49.3 [1.94]	41.5 [1.63]	7.0 [0.28]	70.0 [2.76]	12.5 [0.49]	9.0 [0.35]	6.5 [0.26]
AB-4T	104.0 [4.09]	76.0 [2.99]	58.5 [2.30]	50.0 [1.97]	7.0 [0.28]	80.0 [3.15]	15.5 [0.61]	12.0 [0.47]	8.6 [0.34]
AB-6T	128.0 [5.04]	104.0 [4.09]	79.5 [3.13]	70.0 [2.76]	10.0 [0.39]	100.0 [3.94]	19.5 [0.77]	16.0 [0.63]	11.0 [0.43]

AB-xL

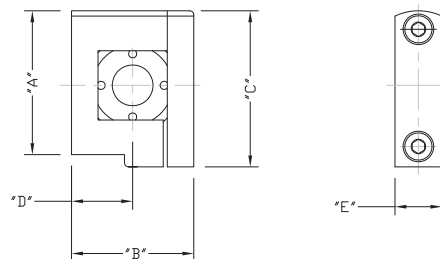| TABLE 1								
PART NUMBER	DIM "A"	DIM "B"	DIM "C"	DIM "D"	DIM "E"	DIM "F"	DIM "G"	DIM "H"	DIM "J"
AB-2L	51.3 [2.02]	45.0 [1.77]	38.3 [1.51]	30.0 [1.18]	5.0 [0.20]	25.0 0.98]	11.5 [0.45]	8.5 [0.33]	5.5 [0.22]
AB-3L	68.6 [2.70]	60.5 [2.38]	49.3 [1.94]	41.5 [1.63]	7.0 [0.28]	35.0 [1.38]	12.5 [0.49]	9.0 [0.35]	6.5 [0.26]
AB-4L	79.5 [3.13]	76.0 [2.99]	58.5 [2.30]	50.0 [1.97]	7.0 [0.28]	40.0 [1.57]	15.5 [0.61]	12.0 [0.47]	8.6 [0.34]
AB-6L	103.5 [4.07]	104.0 [4.09]	79.5 [3.13]	70.0 [2.76]	10.0 [0.39]	50.0 [1.97]	19.5 [0.77]	16.0 [0.63]	11.0 [0.43]

AB-xU

TABLE 1				
PART NUMBER	DIM "A"	DIM "B"	DIM "C"	DIM "D"	DIM "E"
AB-2U	35.5 [1.39]	30.0 [1.18]	38.3 [1.51]	15.0 [0.59]	11.5 [0.45]
AB-3U	43.8 [1.72]	38.0 [1.50]	49.3 [1.94]	19.5 [0.75]	12.5 [0.49]
AB-4U	52.5 [2.07]	52.0 [2.05]	58.5 [2.30]	26.0 [1.02]	15.5 [0.61]
AB-6U	76.5 [3.01]	68.0 [2.68]	79.5 [3.13]	34.0 [1.34]	19.5 [0.77]

Dimensions in mm [inches]

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