

Precision Pneumatic - BFR Series Combination Filter and Regulators





BFR-3431

Mounting bracket not included.

Air Filter / Regulator

NITRA® BFR Series Precision combination filter and regulators are designed for use in systems that require clean, accurate instrument air. They are constructed of durable materials ideal for industrial environments.

Features

- · Diecast aluminum alloy, irridite and baked epoxy finish
- Nitrile elastomer and nylon fabric diaphragm
- · Nitrile elastomer valve seat
- Additional build materials include: brass, zinc plated steel and acetal
- Mounting on pipe, bracket or through body direct
- 40 micron polyethylene filter (5 micron optional)
- 1/4" and 1/2" NPT ports
- (2) 1/4" NPT gauge ports
- Manual drain
- · Made in the USA

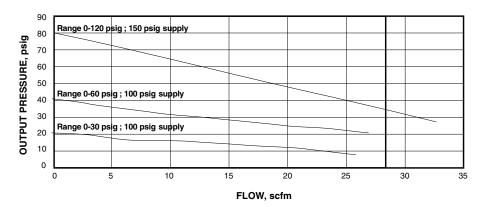


See www.AutomationDirect.com for a wide variety of fitting options

				Precis	ion Pneur	natic BFR Se	ries Filter	/ Regulators			
Part No.	Price	Weight (lbs)	Port Size (FNPT)	Fluid	Temperature	Operating Pressure	Maximum Supply Pressure	Exhaust Capacity	Sensitivity	Air Consumption	Effect of Supply Pressure Variation
BFR-3231	\$61.00	0.4	1/4"			0-30psi (0-0.21 MPa) (0-2 bar)					Less than
BFR-3232	\$61.00	0.4	1/4"	Air &		0-60psi (0-0.41 MPa) (0-4 bar)	250psi (1.72 MPa) (17bar)				0.25 psig (0.017 bar) for 25 psig
BFR-3233	\$61.00	0.4	1/4"		0~160°F	0-120psi (0-0.83 MPa) (0-8 bar)		0.1 scfm (2.83 Nl/min) with downstream		Less than	(1.7 bar) change
<u>BFR-3431</u>	\$125.00	0.4	1/2"	Inert gases	(-18~71°C)	0-30psi (0-0.21 MPa) (0-2 bar)		pressure 5 psig (0.3 bar) above set point	pressure 5 psig (0.3 bar) (2.5 NI/min)	5 scfh (2.5 NI/min)	Less than 0.5
BFR-3432	\$125.00	0.4	1/2"			0-60psi (0-0.41 MPa) (0-4 bar)					psig (0.035 bar) for 25 psig (1.7 bar)
BFR-3433	\$125.00	0.4	1/2"			0-120psi (0-0.83 MPa) (0-8 bar)					change

Performance Chart

BFR 1/4" NPT

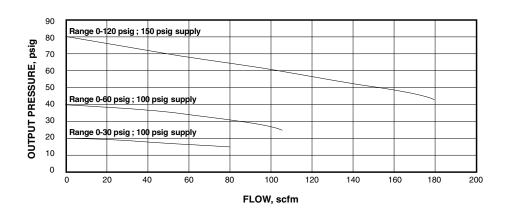




Precision Pneumatic - BFR Series Combination Filter and Regulators

Performance Chart

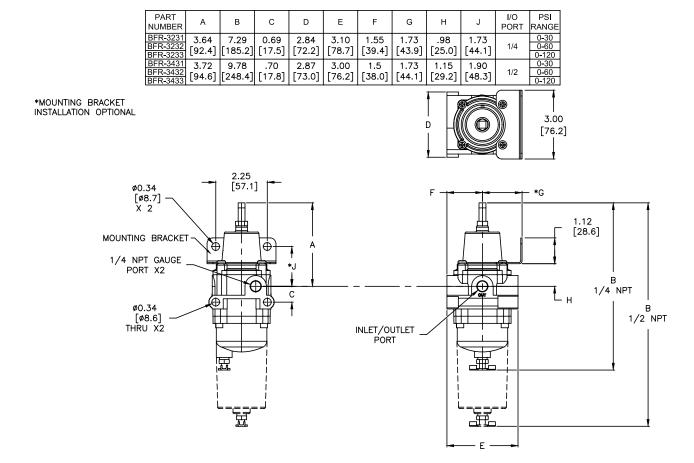
BFR 1/2" NPT



Dimensions

Inches [mm]

BFR-X



See our Web site www.AutomationDirect.com for complete Engineering drawings.



Precision Pneumatic - BFR Series PNEUMATICS Combination Filter and Regulators



BFE-43



BBKT-3

	Pneumatic BFR Series Accessories									
Part No.	Price	Description	Material	Weight (lbs)						
<u>BFE-31</u>	\$14.00	NITRA particulate filter element, replacement, 5 micron, polyethylene. For use with BFR-32 series filter regulators.	Polyethylene (PE)	0.1						
<u>BFE-33</u>	\$14.00	NITRA particulate filter element, replacement, 40 micron, polyethylene. For use with BFR-32 series filter regulators.	Polyethylene (PE)	0.1						
<u>BFE-41</u>	\$14.00	NITRA particulate filter element, replacement, 5 micron, polyethylene. For use with BFR-34 series filter regulators.	Polyethylene (PE)	0.1						
<u>BFE-43</u>	\$14.00	NITRA particulate filter element, replacement, 40 micron, polyethylene. For use with BFR-34 series filter regulators.	Polyethylene (PE)	0.1						
<u>BBKT-3</u>	\$8.75	NITRA mounting bracket. For use with BFR-3 and BR-3 series air prep components.	Plated Steel	0.1						

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Part No. ADB-21



Part No. AB-4T



Part No. AB-4L



Part No. AB-4U

	Pneumatic Air Preparation Accessories									
Part No.	Price	Description	Weight (lbs)							
<u>ADB-21</u>	\$19.00	NITRA pneumatic distribution block, 1/8in female NPT inlet(s), (3) 1/8in female NPT outlet(s). For use with Ax-21 series air prep components.	0.1							
<u>ADB-22</u>	\$19.00	NITRA pneumatic distribution block, 1/4in female NPT inlet(s), (3) 1/4in female NPT outlet(s). For use with Ax-22 series air prep components.	0.1							
<u>ADB-32</u>	\$26.50	NITRA pneumatic distribution block, 1/4in female NPT inlet(s), (3) 1/4in female NPT outlet(s). For use with Ax-32 series air prep components.	0.2							
<u>ADB-33</u>	\$26.50	NITRA pneumatic distribution block, 3/8in female NPT inlet(s), (3) 3/8in female NPT outlet(s). For use with Ax-33 series air prep components.	0.2							
<u>ADB-44</u>	\$28.50	NITRA pneumatic distribution block, 1/2in female NPT inlet(s), (3) 1/2in female NPT outlet(s). For use with Ax-44 series air prep components.	0.4							
<u>AB-2T</u>	\$17.50	NITRA modular T-bracket, for use with Ax-2 series air prep components.	0.2							
<u>AB-2L</u>	\$17.50	NITRA modular L-bracket, for use with Ax-2 series air prep components.	0.2							
<u>AB-2U</u>	\$17.50	NITRA modular U-bracket, for use with Ax-2 series air prep components.	0.1							
<u>AB-3T</u>	\$19.00	NITRA modular T-bracket, for use with Ax-3 series air prep components.	0.3							
<u>AB-3L</u>	\$19.00	NITRA modular L-bracket, for use with Ax-3 series air prep components.	0.3							
<u>AB-3U</u>	\$19.00	NITRA modular U-bracket, for use with Ax-3 series air prep components.	0.2							
<u>AB-4T</u>	\$23.00	NITRA modular T-bracket, for use with Ax-4 series air prep components.	0.5							
AB-4L	\$23.00	NITRA modular L-bracket, for use with Ax-4 series air prep components.	0.5							
<u>AB-4U</u>	\$23.00	NITRA modular U-bracket, for use with Ax-4 series air prep components.	0.4							
<u>AB-6T</u>	\$33.50	NITRA modular T-bracket, for use with Ax-6 series air prep components.	1.3							
<u>AB-6L</u>	\$31.50	NITRA modular L-bracket, for use with Ax-6 series air prep components.	1.2							
<u>AB-6U</u>	\$30.00	NITRA modular U-bracket, for use with Ax-6 series air prep components.	0.8							

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Part No. <u>AFE2-43</u>



Part No. AFE2-41



Part No. AFE-24



Part No. AFE-35

Pneumatic Air Preparation Accessories								
Part No.	Price	Description	Weight (lbs)					
		NITRA Gen 2 Particulate Filters						
<u>AFE2-23</u>	\$1.50	NITRA particulate filter element, replacement, 40 micron particles, high-density polyethylene (HDPE). For use with AF-2 series filters or AFR-2 series filter regulators.	0.01					
<u>AFE2-33</u>	\$3.25	NITRA particulate filter element, replacement, 40 micron particles, high-density polyethylene (HDPE). For use with AF-3 series filters or AFR-3 series filter regulators.	0.01					
<u>AFE2-43</u>	\$4.50	NITRA particulate filter element, replacement, 40 micron particles, high-density polyethylene (HDPE). For use with AF-4 series filters or AFR-4 series filter regulators.	0.01					
<u>AFE2-63</u>	\$11.50	NITRA particulate filter element, replacement, 40 micron particles, high-density polyethylene (HDPE). For use with AF-6 series filters or AFR-6 series filter regulators.	0.04					
<u>AFE2-21</u>	\$1.50	NITRA particulate filter element, replacement, 5 micron particles, high-density polyethylene (HDPE). For use with AF-2 series filters or AFR-2 series filter regulators.	0.01					
<u>AFE2-31</u>	\$3.25	NITRA particulate filter element, replacement, 5 micron particles, high-density polyethylene (HDPE). For use with AF-3 series filters or AFR-3 series filter regulators.	0.01					
<u>AFE2-41</u>	\$4.50	NITRA particulate filter element, replacement, 5 micron particles, high-density polyethylene (HDPE). For use with AF-4 series filters or AFR-4 series filter regulators.	0.01					
<u>AFE2-61</u>	\$11.50	NITRA particulate filter element, replacement, 5 micron particles, high-density polyethylene (HDPE). For use with AF-6 series filters or AFR-6 series filter regulators.	0.04					
		NITRA Coalescing Filters						
<u>AFE-24</u>	\$21.50	NITRA coalescing oil removal filter element, replacement, 0.3 micron particles, borosilicate glass microfiber. For use with AC-2 series coalescing filters.	0.05					
<u>AFE-34</u>	\$26.50	NITRA coalescing oil removal filter element, replacement, 0.3 micron particles, borosilicate glass microfiber. For use with AC-3 series coalescing filters.	0.05					
<u>AFE-44</u>	\$42.50	NITRA coalescing oil removal filter element, replacement, 0.3 micron particles, borosilicate glass microfiber. For use with AC-4 series coalescing filters.	0.1					
<u>AFE-25</u>	\$21.50	NITRA coalescing oil removal filter element, replacement, 0.01 micron particles, borosilicate glass microfiber. For use with AC-2 series coalescing filters.	0.04					
<u>AFE-35</u>	\$26.50	NITRA coalescing oil removal filter element, replacement, 0.01 micron particles, borosilicate glass microfiber. For use with AC-3 series coalescing filters.	0.05					
<u>AFE-45</u>	\$42.50	NITRA coalescing oil removal filter element, replacement, 0.01 micron particles, borosilicate glass microfiber. For use with AC-4 series coalescing filters.	0.1					

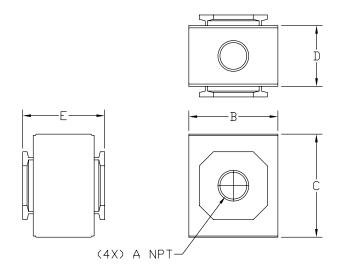


Dimensions

mm [inches]

ADB-x

PART NO.	A NPT	DIM B	DIM C	DIM D	DIM E
ADB-21	1/8	30.0 [1.18]	36.0 [1.42]	19.5 [0.77]	28.5 [1.12]
ADB-22	1/4	30.0 [1.18]	36.0 [1.42]	19.5 [0.77]	28.5 [1.12]
ADB-32	1/4	38.0 [1.50]	44.0 [1.73]	26.0 [1.02]	35.0 [1.38]
ADB-33	3/8	38.0 [1.50]	44.0 [1.73]	26.0 [1.02]	35.0 [1.38]
ADB-44	1/2	52.0 [2.05]	52.0 [2.05]	30.0 [1.18]	42.0 [1.65]



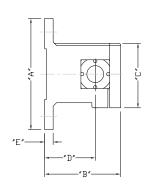
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Dimensions

mm [inches]

AB-xT



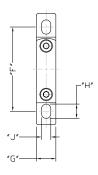
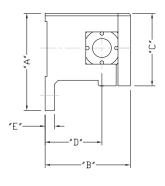


	TABLE 1									
PART NUMBER	DIM "A"	DIM "B"	DIM "C"	DIM "D"	DIM "E"	DIM "F"	DIM "G"	DIM "H"	DIM "J"	
AB-2T	66.0 [2.60)	45.0 [1.77]	38.3 [1.51]	30.0 [1.18]	5.0 [0.20]	50.0 [1.97]	11.5 [0.45]	8.5 [0.33]	5.5 [0.22]	
AB-3T	88.0 [3.46]	60.5 [2.38]	49.3 [1.94]	41.5 [1.63]	7.0 [0.28]	70.0 [2.76]	12.5 [0.49]	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



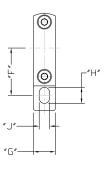


	TABLE 1									
PART NUMBER	DIM "A"	DIM "B"	DIM "C"	DIM "D"	DIM "E"	DIM "F"	DIM "G"	DIM "H"	DIM "J"	
AB-2L	51.3 [2.02]	45.0 [1.77]	38.3 [1.51]	30.0 [1.18]	5.0 [0.20]	25.0 [0.98]	11.5 [0.45]	8.5 [0.33]	5.5 [0.22]	
AB-3L	68.6 [2.70]	60.5 [2.38]	49.3 [1.94]	41.5 [1.63]	7.0 [0.28]	35.0 [1.38]	12.5 [0.49]	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]	

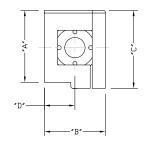
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Dimensions

mm [inches]

AB-xU



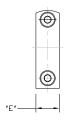


TABLE 1									
PART NUMBER	DIM "A"	DIM "B"	DIM "C"	DIM "D"	DIM "E"				
AB-2U	35.5 [1.39]	30.0 [1.18]	38.3 [1.51]	15.0 [0.59]	11.5 [0.45]				
AB-3U	43.8 [1.72]	38.0 [1.50]	49.3 [1.94]	19.5 [0.75]	12.5 [0.49]				
AB-4U	52.5 [2.07]	52.0 [2.05]	58.5 [2.30]	26.0 [1.02]	15.5 [0.61]				
AB-6U	76.5 [3.01]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