

AIR PREPARATION FRL's Accessories



ROSS CONTROLS

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Mounting Accessories Brackets & Bracket Kits

Mounting Screws for BANTAM Models

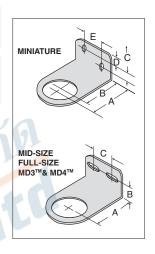
Usage Models	Kit Number
BANTAM	859K77

BANTAM models mounts with long screws that extend through end plates.

Mounting Brackets for Regulators and Integrated Filter/Regulators

Regulators and integrated filter/regulators can be mounted to a surface with a bracket that attaches to the regulator. Brackets and mounting panel nuts can be ordered separately or in a kit which includes both bracket and mounting panel nut.

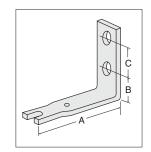
Usage Model Number		Dimensions inches (mm)							
Models	Kit	Bracket	Panel Nut	Α	В	С	D	E	Panel Mounting Hole Diameter
MINIATURE	873K77	872K77	874K77	1.375 (35)	1.125 (29)	0.31 (8)	0.31 (8)	0.69 (17)	1.19 (30)
MID-SIZE	876K77	875K77	877K77	2.38 (60)	1.00 (25)	1.50 (38)	-		1.56 (40)
MD3™	R-A127-11	_	R-127-11						
FULL-SIZE, MD4™	879K77	878K77	880K77	2.38 (60)	1.00 (25)	1.50 (38)		1	2.06 (52)



Modular Mounting Brackets for Filters, Regulators, Lubricators, FRL's, or Clean Air Packages

Two L-shaped metal brackets as shown at the right can be used for wall mounting of modular FRLs or Clean Air Packages. A single bracket can be used to mount individual filters or lubricators. Kits include two brackets and four screws for attaching the brackets to the modules.

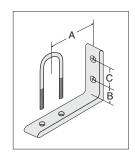
Usage Models	Usage Models Kit Number Dimensions inches (mm)				
Usage Models	Kit Nullibei	Α	В	С	D
MID-SIZE & FULL-SIZE	915K77	3 <mark>.0</mark> (76)	0.88 (22)	1.00 (25)	1.20 (31)



FRLs In-line Mounting Pipe Brackets

Two pipe brackets can be used for wall mounting of FRLs assemblies that use pipe nipples to join the components. The bracket kits listed below include two sets of brackets.

Nipple Size	Kit Number	Dime	nsions inches	(mm)
mppio dizo	Tere realisation	Α	В	С
1/4	887K77			
3/8	888K77	2.72 (28)	0.50 (13)	1.00 (25)
1/2	889K77			
3/4	890K77	2 60 (04)	1 10 (00)	1.05 (00)
1	891K77	3.69 (94)	1.13 (29)	1.25 (32)



Bracket Assembly Kit for HIGH-RELIEF Pilot Operated Regulator

High-Relief Pilot Operated Regulator with 1/4- thru 11/4 inch ports can be mounted to a vertical surface using a bracket assembly kit.







MID-SIZE and FULL-SIZE Units

The modular designs of the MID-SIZE and FULL-SIZE series offer maximum flexibility in customizing FRLs assemblies. As shown at the right, connector kits are required to interconnect units. Various port kits (shown below) can be used to connect the assemblies to the inlet and outlet piping. Note that all FRLs components have threaded ports so that conventional pipe fittings may be used where desired.

Female Port Block

Used to connect to piping at inlet or outlet.

Dowt Cine	Model Number		
Port Size	NPTF Threads	G Threads	
1/4	897K77	D897K77	
3/8	898K77	D898K77	
1/2	899K77	D899K77	
3/4	900K77	D900K77	



Male Port Block

Used to connect modular to non-modular units.

Port Size	Model Number		
Port Size	NPTF Threads	G Threads	
1/4	893K77	D893K77	
3/8	894K77	D894K77	
1/2	895K77	D895K77	
3/4	896K77	D896K77	



Connector Kit

Used to connect units to one another as well as to any of the ports shown on this page.

Kit Number	892K77	



BANTAM Units

BANTAM modular units use end plates secured with screws to hold the pipe or tubing ports (see below), and also to serve as mounting brackets. Short screws are used to secure the end plates when a single BANTAM unit is used. If two or more units are combined, long screws extend through an end plate and thread into the next unit.

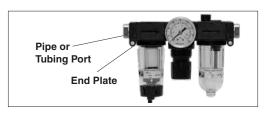
Screw kits required are as follows:

Single Unit: Two short screw kits.

Two-Unit Combination: One each short screw kit and long screw kit.

Three-Unit Combination: Two long screw kits.

Pipe Ports			
Kit Description	Model Number		
END PLATE (1)	857K77		
Short Screw (2)	858K77		
Long Screw (2)	859K77		
Small O-Ring (for inlet or mating ports)	860K77		
Large O-Ring (for outlet or mating ports)	861K77		



Pipe Ports			
Port Size	Model Number		
1/8 NPTF	862K77		
1/4 NPTF	863K77		
1/8 BSPP	D864K77		
1/4 BSPP	D865K77		

Tube Ports				
Port Size	Model Number			
1/4	866K77			
3/8	867K77			
4 mm	868K77			
6 mm	869K77			
8 mm	870K77			
10 mm	871K77			



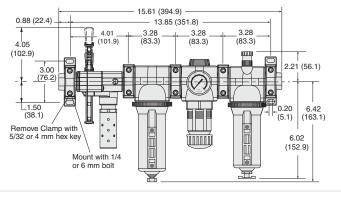
Modular Assemblies

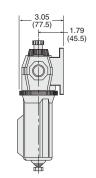
Accessories: Clamp, Brackets, End Ports & Port Blocks

MD Series

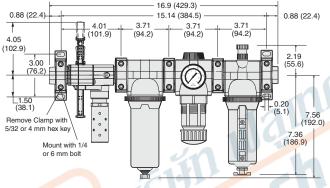
Dimensions: inches (mm)

MD3™ Series





MD4™ Series





Mounting Brackets & Clamp for Module Connections

Two brackets are normally used to mount an FRL to a vertical surface. The mounting bracket attaches to the module connecting clamp (see above) with a single screw. Each bracket then employs two bolts (1/4" or 6mm) to connect the assembly to the mounting surface.

Specially designed clamps provide a quick and easy assembly or disassembly of MD3™ modules. Two Allen-Head bolts quickly tighten or loosen the clamp using a 5/32 or 4mm hex key. The clamp contains a plate carrying two O-rings to provide positive sealing between modules.

Mounting Brackets & Clamp for Module Connections				
Description Model Number				
Bracket and Screw	R-A118-103			
Module Connecting Clamp	R-A118-105			
Bracket, Screw, and Clamp R-A118-105M				



Bracket, Screw, and Clamp



Module Connecting Clamp

Mounting Bracket

Male and Female End Ports

Either male or female end ports can be attached to threaded inlet and outlet lines. This allows all modules of an FRL assembly to be removed easily and quickly without having to unthread the end modules. The end ports are attached to the modules with clamps (see at left). End ports can be included in an assembled FRL or ordered separately by the following model numbers:

		End Po	rts	
Tuna	Port	Port Model Number		
Туре	Size	NPTF Threads	G Threads	
	1/4	R-118-100-2	R-118-100-2W	-
Female	3/8	R-118-100-3	R-118-100-3W	
remaie	1/2	R-118-100-4	R-118-100-4W	
	3/4	R-118-100-6	R-118-100-6W	
	1/4	R-118-109-2F	R-118-109-2FW	A.4
Male	3/8	R-118-109-3F	R-118-109-3FW	
iviale	1/2	R-118-109-4F	R-118-109-4FW	1
	3/4	R-118-109-6F	R-118-109-6FW	

Extra Port Blocks

An extra port block can be placed between modules to provide two auxiliary 1/4 NPTF ports. Its mounting position can be rotated to obtain the most convenient operating orientation. If only one auxiliary port is to be used, the unused port must be closed with a pipe plug. (The inlet and outlet are not threaded.)

Port	Model Number			
Size	NPTF Threads	G Threads		
1/4	R-118-106-2	R-118-106-2W		
3/8	R-118-106-3	R-118-106-3W		
1/2	R-118-106-4	R-118-106-4W		





บริษัท ฟลูเทค จำกัด FLU-TECH CO.,LTD

บริษัท ฟลูเทค จำกัด 845/3-4 หมู่ 3 ถ.เทพารักษ์ ต.เทพารักษ์ อ.เมือง จ.สมุทรปราการ 10270

Analog Pressure Gauges

		Port	Model	Number	Pressure	Case	
	Type/Material	Size	Th	read	Range	Diameter	
		0.20	NPT	G	psig (bar)	inches (mm)	
		1/8	5400A1002	D5400A1002	0-160 (0-11)	1.7 (43)	/
Dragoura Course	Standard	1/4	5400A2010	D5400A2010	0-60 (0-4)	2.0 (51)	$($
Pressure Gauges (Center Back Mounting)	Aluminum	1/4	5400A2011	D5400A2011	0-200 (0-14)	2.0 (51)	`
(Center Back Mounting)		1/4	5400A2012	D5400A2012	0-300 (0-20)	2.0 (51)	
	Liquid Filled	1/4	5400A2014	D5400A2014	0-160 (0-11)	2.5 (64)	
	Stainless Steel	1/4	5400A2015*	D5400A2015*	0-160 (0-11)	2.0 (51)	
	*Green shade b	etween 4		.8 bar).			







Differential Pressure Gauges

	Small Slide Gauge	Small Slide Gauge	Large Dual Face Gauge	Large Dual Face Gauge with Reed Switch (Normally Open)	Large Dual Face Gauge with Reed Switch (Normally Closed)
DIFFERENTIAL	R-A60F-28	R-K103-151	R-106-35	R-106-35E	R-106-35EC
PRESSURE GAUGE TYPE/SERIES					
FILTERS		14 1			
BANTAM		-	_	_	_
MINIATURE	-	-	-	_	_
MID-SIZE		_	_	_	_
MD3™		-	_	_	_
FULL-SIZE	-	- 10	_	_	_
MD4™	-				
HIGH-CAPACITY		· Speci	_	_	_
COALESCING FIL	TERS	(Or 2.			
BANTAM	-id Com	_	_	_	_
MINIATURE	Fluir	_	_	_	_
MID-SIZE		-	-	_	-
FULL-SIZE	_				
MD3™		-	-	-	_
MD4™	_				
HIGH-CAPACITY	_				
OIL VAPOR REMO (ADSORBING) FIL					
MD3™	_	_	-	-	-
MD4™	_	_	_	_	_
CLEAN AIR PACK	AGES				
MD3™		-	_	_	_
MD4™	_				



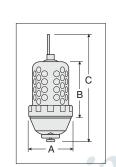
External Automatic Drains

Dina Cina	Model Nu	mber*
Pipe Size	Polycarbonate Bowl**	Metal Bowl
1/8	5057B1001	5058B1001
1/4*	5057B2001	5058B2001

*Use 1/4 size with FULL-SIZE, HIGH-CAPACITY, MD3™ & MD4™ filters. Use kit 1076K77 to convert standard bowl to accept auto drain unit.

^{**}Available for FULL-SIZE filters only. Polycarbonate bowl includes metal bowl guard.

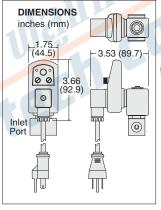
Port Size	Dime	nsions inches	(mm)	Weight
Port Size	Α	В	С	lb (kg)
1/8, 1/4	3.5 (89)	4.2 (107)	8.3 (211)	2.6 (1.2)





Electronically Controlled Drain

Pipe	Voltage	Model Number		
Size	Voltage	NPTF Threads	G Threads	
1/4	24 volts DC	R-DED-24 <mark>V-</mark> 2	R-DED-24V-2W	
3/8	24 volts DC	R-DED-24V-3	R-DED-24V-3W	
1/2	24 volts DC	R-DED-24V-4	R-DED-24V-4W	
1/4	110-120 volts AC, 50/60 Hz	R-DED-115V-2	R-DED-115V-2W	
3/8	110-120 volts AC, 50/60 Hz	R-DED-115V-3	R-DED-115V-3W	
1/2	110-120 volts AC, 50/60 Hz	R-DED-115V-4	R-DED-115V-4W	





STANDARD SPECIFICATIONS (for electronically controlled drain):

Drain Time	Adjustable 0.5 to 10 seconds
Drain Interval	0.5 to 45 minutes
Current Consumption	Maximum 4 ma
Tompovoturo	Ambient: 35° to 130°F (2° to 54°C)
Temperature	Media: 35° to 190°F (2° to 88°C)

Electrical Connection	DIN 43650A, ISO 440/6952
Valve Type	2/2 direct acting, normally closed
Valve Body	Forged brass; 3/16-inch (4.8 mm) orifice
Maximum Pressure	230 psig (15.8 bar)

Silencers

Port Size	Thread	Mode	el Number*	Avg.	Dimension	s inches (mm)	Weight
FOIT SIZE	Type	NPT Threads	R/Rp Threads	C _v	Width	Length	lb (kg)
3/8	Male	5500A3003	D5500A3003	4.3	1.3 (32)	3.5 (88)	0.2 (0.1)
3/4	Male	5500A5013	D5500A5013	5.1	1.3 (32)	3.6 (92)	0.2 (0.1)
3/4	Male	5500A5003	D5500A5003	11.5	2.0 (51)	5.3 (135)	0.6 (0.3)





Flow Media: Filtered air.

Pressure Range: 0 to 290 psig (0 to 20 bar) maximum.



Replacements **Filter Elements**

FRL's Series

Category	Series	Bowl Type	Element Rating	Element Material	Model Numbe
	Do-into-in-		5-µm	Polyethylene	933K77
	Bantam &	Standard	5-µm	Sintered Bronze	R-KA130-27E
	Miniature	Stariuaru	20-µm	Sintered Bronze	R-KA130-27E
	Williature		40-µm	Sintered Bronze	R-KA130-27E
	MID-SIZE	Standard	5-µm	Polyethylene	936K77
			5-µm	Polyethylene	R-A60F-03PE
	MPOTM	Ota va da val	5-µm	Sintered Bronze	R-A60F-03E5
	MD3™	Standard	20-μm	Sintered Bronze	R-A60F-03E4
			 40-μm	Sintered Bronze	R-A60F-03E3
			5-µm	Polyethylene	939K77
			5-µm	Sintered Bronze	R-KA103-03E
	FULL-SIZE	Standard	20-µm	Sintered Bronze	R-KA103-03E
Filters			40-μm	Sintered Bronze	R-KA103-03E
			5-μm	Polyethylene	R-A115-106PI
			<u>5 μm</u>	Sintered Bronze	R-A115-106E
	MD4™	Standard	20-μm	Sintered Bronze	R-A115-106E
			40-μm	Polyethylene	R-A115-106PI
			· · · · · · · · · · · · · · · · · · ·	Polyethylene	1010K77
	LUCII CARACITY	-	5-µm		
	HIGH-CAPACITY Flow to 275 scfm	Standard	5-μm	Sintered Bronze	R-KA109-03E
	I IOW to 2/3 SCIIII		20-µm	Sintered Bronze Sintered Bronze	R-KA109-03E R-KA109-03E
			40-µm		
	HIGH-CAPACITY	Standard	5-µm	Sintered Bronze	1656K77
	Flow to 660 scfm		40-μm	Sintered Bronze	R-A114-106E
	HIGH-CAPACITY	Standard	5-µm	Sintered Bronze	942K77
	Flow to 1000 scfm		40-μm	Sintered Bronze	944K77
	Bantam & Miniature	Standard	0.3-μm	Borosilicate-glass-fiber	945K77
		413	0.01-μm	Borosilicate-glass-fiber	R-A-10F-16E
	MID-SIZE	Standard	0.3-μm	Borosilicate-glass-fiber	R-A60F-29
		Extended	0.3-µm	Borosilicate-glass-fiber	R-A60F-32
	IIIID GIZZ	Standard	0.01-μm	Borosilicate-glass-fiber	R-A60F-29E
		Extended	0.01-μm	Borosilicate-glass-fiber	R-A60F-32E
		Polycarbonate	0.3-µm	Borosilicate-glass-fiber	R-A60F-23
		Metal	0.3-µm	Borosilicate-glass-fiber	R-A60F-29
	MD3™	Extended Metal	0.3-µm	Borosilicate-glass-fiber	R-A60F-32
	MID3	Polycarbonate	0.01-µm	Borosilicate-glass-fiber	R-A60F-23E
		Metal	0.01-µm	Borosilicate-glass-fiber	R-A60F-29E
		Extended Metal	0.01-µm	Borosilicate-glass-fiber	R-A60F-32E
		Standard	0.3-µm	Borosilicate-glass-fiber	947K77
		Extended	0.3-μm	Borosilicate-glass-fiber	R-A103-160
	FULL-SIZE	Standard	· · · · · · · · · · · · · · · · · · ·		
Coalcooine			0.01-um	Borosilicate-diass-fiber	948K77
	COE	Extended	0.01-µm	Borosilicate-glass-fiber Borosilicate-glass-fiber	948K77 B-A103-160U
Coalescing	-ol spec	Extended	0.01-µm	Borosilicate-glass-fiber	R-A103-160Ll
Filters	control spec	Standard	0.01-μm 0.3-μm	Borosilicate-glass-fiber Borosilicate-glass-fiber	R-A103-160Ll R-A115-117
	MD4™	Standard Extended	0.01-µm 0.3-µm 0.3-µm	Borosilicate-glass-fiber Borosilicate-glass-fiber Borosilicate-glass-fiber	R-A103-160Ll R-A115-117 R-A115-118
	MD4™	Standard Extended Standard	0.01-µm 0.3-µm 0.3-µm 0.01-µm	Borosilicate-glass-fiber Borosilicate-glass-fiber Borosilicate-glass-fiber Borosilicate-glass-fiber	R-A103-160LI R-A115-117 R-A115-118 R-A115-117E
	Fluid	Standard Extended	0.01-µm 0.3-µm 0.3-µm 0.01-µm 0.01-µm	Borosilicate-glass-fiber Borosilicate-glass-fiber Borosilicate-glass-fiber Borosilicate-glass-fiber Borosilicate-glass-fiber	R-A103-160LI R-A115-117 R-A115-118 R-A115-117E R-A115-118E
	HIGH-CAPACITY	Standard Extended Standard	0.01-µm 0.3-µm 0.3-µm 0.01-µm 0.01-µm 0.3-µm	Borosilicate-glass-fiber Borosilicate-glass-fiber Borosilicate-glass-fiber Borosilicate-glass-fiber Borosilicate-glass-fiber Borosilicate-glass-fiber	R-A103-160LI R-A115-117 R-A115-118 R-A115-117E R-A115-118E 949K77
	Fluid	Standard Extended Standard Extended Standard	0.01-µm 0.3-µm 0.3-µm 0.01-µm 0.01-µm 0.3-µm 0.01-µm	Borosilicate-glass-fiber Borosilicate-glass-fiber Borosilicate-glass-fiber Borosilicate-glass-fiber Borosilicate-glass-fiber Borosilicate-glass-fiber Borosilicate-glass-fiber	R-A103-160LI R-A115-117 R-A115-117E R-A115-118E 949K77 R-A109-106E
	HIGH-CAPACITY Flow to 220 scfm	Standard Extended Standard Extended Standard Standard	0.01-µm 0.3-µm 0.3-µm 0.01-µm 0.01-µm 0.3-µm 0.01-µm 0.3-µm	Borosilicate-glass-fiber Borosilicate-glass-fiber Borosilicate-glass-fiber Borosilicate-glass-fiber Borosilicate-glass-fiber Borosilicate-glass-fiber Borosilicate-glass-fiber Borosilicate-glass-fiber Borosilicate-glass-fiber	R-A103-160LI R-A115-117 R-A115-117E R-A115-118E 949K77 R-A109-106E R-A114-112
	HIGH-CAPACITY Flow to 220 scfm HIGH-CAPACITY	Standard Extended Standard Extended Standard Standard Standard Extended	0.01-µm 0.3-µm 0.3-µm 0.01-µm 0.01-µm 0.01-µm 0.3-µm 0.01-µm	Borosilicate-glass-fiber	R-A103-160LI R-A115-117 R-A115-117E R-A115-118E 949K77 R-A109-106E R-A114-112
	HIGH-CAPACITY Flow to 220 scfm	Standard Extended Standard Extended Standard Standard Standard Extended Standard	0.01-µm 0.3-µm 0.01-µm 0.01-µm 0.01-µm 0.3-µm 0.01-µm 0.01-µm 0.01-µm	Borosilicate-glass-fiber	R-A103-160LI R-A115-117 R-A115-117 R-A115-118E 949K77 R-A109-106E R-A114-112 R-A114-112
	HIGH-CAPACITY Flow to 220 scfm HIGH-CAPACITY	Standard Extended Standard Extended Standard Standard Extended Standard Extended Standard Extended	0.01-µm 0.3-µm 0.01-µm 0.01-µm 0.01-µm 0.3-µm 0.01-µm 0.3-µm 0.01-µm 0.3-µm 0.01-µm	Borosilicate-glass-fiber	R-A103-160LI R-A115-117 R-A115-117 R-A115-118E 949K77 R-A109-106E R-A114-112 R-A114-113 R-A114-113
	HIGH-CAPACITY Flow to 220 scfm HIGH-CAPACITY Flow to 295 & 450 scfm	Standard Extended Standard Extended Standard Standard Extended Standard Extended Standard Extended Standard Extended Standard	0.01-µm 0.3-µm 0.01-µm 0.01-µm 0.01-µm 0.3-µm 0.01-µm 0.3-µm 0.01-µm 0.3-µm 0.3-µm 0.3-µm	Borosilicate-glass-fiber	R-A103-160LI R-A115-117 R-A115-118 R-A115-118 949K77 R-A109-106E R-A114-112 R-A114-113 R-A114-113 952K77
	HIGH-CAPACITY Flow to 220 scfm HIGH-CAPACITY Flow to 295 & 450 scfm HIGH-CAPACITY	Standard Extended Standard Extended Standard Standard Extended Standard Extended Standard Extended Standard Extended Standard Extended Standard	0.01-µm 0.3-µm 0.01-µm 0.01-µm 0.01-µm 0.3-µm 0.01-µm 0.3-µm 0.3-µm 0.3-µm 0.3-µm 0.01-µm	Borosilicate-glass-fiber	R-A103-160LI R-A115-117 R-A115-117 R-A115-118E 949K77 R-A109-106E R-A114-112 R-A114-113 R-A114-113E 952K77 953K77
	HIGH-CAPACITY Flow to 220 scfm HIGH-CAPACITY Flow to 295 & 450 scfm	Standard Extended Standard Extended Standard Standard Extended Standard Extended Standard Extended Standard Extended Standard Extended Standard Extended Standard	0.01-µm 0.3-µm 0.01-µm 0.01-µm 0.01-µm 0.01-µm 0.3-µm 0.3-µm 0.3-µm 0.3-µm 0.3-µm 0.01-µm	Borosilicate-glass-fiber	R-A103-160Lt R-A115-117 R-A115-118 R-A115-118E 949K77 R-A109-106E R-A114-112 R-A114-113 R-A114-113E 952K77 953K77 R-A106-24E
	HIGH-CAPACITY Flow to 220 scfm HIGH-CAPACITY Flow to 295 & 450 scfm HIGH-CAPACITY	Standard Extended Standard Extended Standard Standard Extended Standard Extended Standard Extended Standard Extended Standard Extended Standard	0.01-µm 0.3-µm 0.01-µm 0.01-µm 0.01-µm 0.3-µm 0.01-µm 0.3-µm 0.3-µm 0.3-µm 0.3-µm 0.01-µm	Borosilicate-glass-fiber	R-A103-160LI R-A115-117 R-A115-118 R-A115-118 949K77 R-A109-106E R-A114-112 R-A114-113 R-A114-113E 952K77 953K77 R-A106-24E
	HIGH-CAPACITY Flow to 220 scfm HIGH-CAPACITY Flow to 295 & 450 scfm HIGH-CAPACITY	Standard Extended Standard Extended Standard Standard Extended Standard Extended Standard Extended Standard Extended Standard Extended Standard Extended Standard	0.01-µm 0.3-µm 0.01-µm 0.01-µm 0.01-µm 0.01-µm 0.3-µm 0.3-µm 0.3-µm 0.3-µm 0.3-µm 0.01-µm	Borosilicate-glass-fiber	R-A103-160LI R-A115-117 R-A115-118 R-A115-118 949K77 R-A109-106E R-A114-112 R-A114-113 R-A114-113E 952K77 953K77 R-A106-24E
	HIGH-CAPACITY Flow to 220 scfm HIGH-CAPACITY Flow to 295 & 450 scfm HIGH-CAPACITY Flow to 465 scfm	Standard Extended Standard Extended Standard Standard Extended Standard Extended Standard Extended Standard Extended Standard Extended Standard Extended Standard	0.01-µm 0.3-µm 0.01-µm 0.01-µm 0.01-µm 0.01-µm 0.3-µm 0.3-µm 0.3-µm 0.01-µm 0.01-µm 0.01-µm 0.01-µm	Borosilicate-glass-fiber	R-A103-160LI R-A115-117 R-A115-118 R-A115-118 949K77 R-A109-106E R-A114-112 R-A114-113 R-A114-113E 952K77 953K77 R-A106-24E R-A106-24LE
Filters	HIGH-CAPACITY Flow to 220 scfm HIGH-CAPACITY Flow to 295 & 450 scfm HIGH-CAPACITY Flow to 465 scfm HIGH-CAPACITY Flow to 840 scfm	Standard Extended Standard Extended Standard Standard Extended Standard Extended Standard Extended Standard Extended Standard Extended Standard Extended Standard	0.01-µm 0.3-µm 0.01-µm 0.01-µm 0.01-µm 0.3-µm 0.01-µm 0.3-µm 0.3-µm 0.01-µm 0.01-µm 0.01-µm 0.01-µm 0.01-µm 0.3-µm	Borosilicate-glass-fiber	R-A103-160LI R-A115-117 R-A115-118 R-A115-118 949K77 R-A109-106E R-A114-112 R-A114-113 R-A114-113E 952K77 953K77 R-A106-24LE 953K77 R-A106-24LE
Filters Oil Vapor	HIGH-CAPACITY Flow to 220 scfm HIGH-CAPACITY Flow to 295 & 450 scfm HIGH-CAPACITY Flow to 465 scfm HIGH-CAPACITY	Standard Extended Standard Extended Standard Standard Extended	0.01-µm 0.3-µm 0.01-µm 0.01-µm 0.01-µm 0.3-µm 0.01-µm 0.3-µm 0.3-µm 0.01-µm 0.01-µm 0.01-µm 0.01-µm 0.01-µm 0.3-µm	Borosilicate-glass-fiber	R-A103-160Lt R-A115-117 R-A115-118 R-A115-118 R-A115-118 949K77 R-A109-106E R-A114-112 R-A114-113 R-A114-113E 952K77 953K77 R-A106-24Et 953K77 R-A106-24Et R-A106-24Et R-A60F-29E
Oil Vapor Removal	HIGH-CAPACITY Flow to 220 scfm HIGH-CAPACITY Flow to 295 & 450 scfm HIGH-CAPACITY Flow to 465 scfm HIGH-CAPACITY Flow to 840 scfm MD3 TM	Standard Extended Standard Extended Standard Standard Extended Standard	0.01-µm 0.3-µm 0.01-µm 0.01-µm 0.01-µm 0.3-µm 0.3-µm 0.01-µm 0.3-µm 0.01-µm 0.01-µm 0.3-µm 0.3-µm 0.1-µm 0.3-µm 0.1-µm 0.3-µm 0.1-µm 0.1-µm 0.1-µm 0.1-µm 0.1-µm	Borosilicate-glass-fiber	R-A103-160Lt R-A115-117 R-A115-118 R-A115-118 R-A115-118 949K77 R-A109-106E R-A114-112 R-A114-113 R-A114-113E 952K77 953K77 R-A106-24Et 953K77 R-A106-24Et R-A106-24Et R-A60F-29E R-A60F-32E
Filters Oil Vapor	HIGH-CAPACITY Flow to 220 scfm HIGH-CAPACITY Flow to 295 & 450 scfm HIGH-CAPACITY Flow to 465 scfm HIGH-CAPACITY Flow to 840 scfm	Standard Extended Standard Extended Standard Standard Extended	0.01-µm 0.3-µm 0.01-µm 0.01-µm 0.01-µm 0.3-µm 0.01-µm 0.3-µm 0.01-µm 0.01-µm 0.01-µm 0.3-µm 0.1-µm	Borosilicate-glass-fiber	R-A103-160LE R-A115-117 R-A115-118 R-A115-118 R-A115-118 949K77 R-A109-106E R-A114-112 R-A114-113 R-A114-113E 952K77 953K77 R-A106-24EE 953K77 R-A106-24EE R-A106-24EE R-A106-24EE R-A106-24EE R-A60F-29EE R-A60F-32EE R-A115-117E
Oil Vapor Removal	HIGH-CAPACITY Flow to 220 scfm HIGH-CAPACITY Flow to 295 & 450 scfm HIGH-CAPACITY Flow to 465 scfm HIGH-CAPACITY Flow to 840 scfm MD3 TM	Standard Extended Standard Extended Standard Standard Extended	0.01-µm 0.3-µm 0.01-µm 0.01-µm 0.01-µm 0.3-µm 0.01-µm 0.3-µm 0.01-µm 0.01-µm 0.01-µm 0.3-µm 0.1-µm	Borosilicate-glass-fiber	R-A103-160LE R-A115-117 R-A115-118 R-A115-118 R-A115-118 949K77 R-A109-106E R-A114-112 R-A114-113 R-A114-113E 952K77 953K77 R-A106-24EE 953K77 R-A106-24EE 953K77 R-A106-24EE R-A60F-29EE