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FRL 2020



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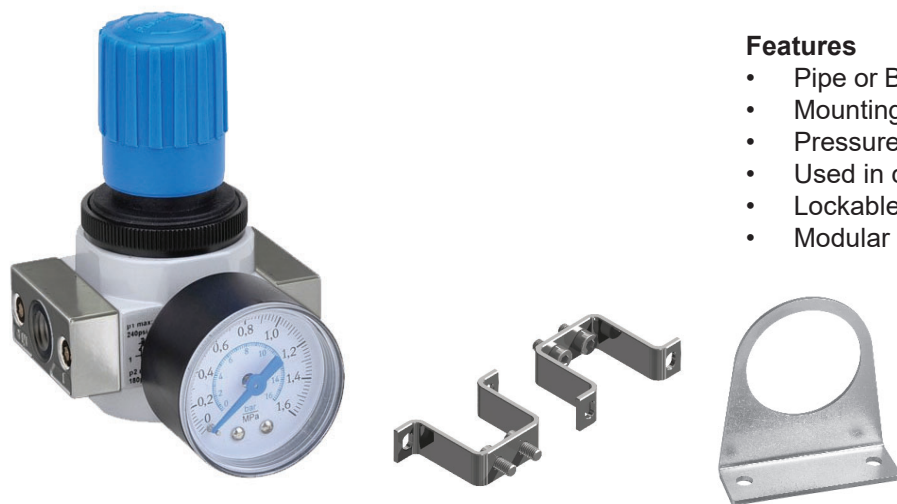
- Pipe or Bracket Mounted Point of Use Filters
- Mounting Brackets included
- Used in conjunction with LR and LOE models
- Twist release bowl removal
- Easy change filter elements
- Sight glass indicator for liquid level
- Semi Automatic (pull for drain) or Fully Automatic Drain
- Modular thread blocks



LF	MINI	N14	5M	A
Series Type	Body Size	Port Size NPT	Filtration Efficiency	Drain Type
	MINI	N18 1/8	40μ	Semi-Automatic
	MIDI	N14 1/4	5M 5μ	A Auto Drain
	MAXI	N38 3/8		
		N12 1/2		
		N34 3/4		
		N1 1		
				Body Size
				MINI
				MINI

Body Size	Available Port Sizes
MINI	1/8
MINI	1/4
MINI & MIDI	3/8
MIDI	1/2
MIDI & MAXI	3/4
MAXI	1

SPECIFICATIONS									
Body Size		MINI			MIDI			MAXI	
Port Size NPT		1/8	1/4	3/8	3/8	1/2	3/4	3/4	1
Filtration Efficiency		40μ Polyethylene, 5μ Option							
Supply Pressure		0-16bar(g) / 230psi(g)							
Working Pressure		0-12bar(g) / 0-175psi(g)							
Working Temperature		5-60° / 41-140°F							
40μ Rated Flow NI/min		1000	1200	1400	2700	3000	3000	5000	5300
40μ Rated Flow CFM		35	42	49	95	106	106	177	187
5μ Rated Flow NI/min		600	950	1100	1800	1900	1900	3200	3300
5μ Rated Flow CFM		21	34	39	64	67	67	113	117
Materials	Filter Head	Aluminum Alloy Painted							
	Bowl Guard	Aluminum Painted							
	Filter Bowl	Polycarbonate							
	Seals	NBR							



Features

- Pipe or Bracket Mounted Point of Use Pressure Regulators
- Mounting brackets included
- Pressure gauge included
- Used in conjunction with LF and LOE models
- Lockable Adjustment Knob (push lock-pull unlock)
- Modular thread blocks

LR	MINI	N14	7
Series Type	Body Size	Port Size NPT	Adjustment Range
	MINI	N18 1/8	7 100psi
	MIDI	N14 1/4	
	MAXI	N38 3/8	
		N12 1/2	
		N34 3/4	
		N1 1	

Body Size	Available Port Sizes
MINI	1/8
MINI	1/4
MINI & MIDI	3/8
MIDI	1/2
MIDI & MAXI	3/4
MAXI	1

SPECIFICATIONS									
Body Size		MINI			MIDI			MAXI	
Port Size NPT		1/8	1/4	3/8	3/8	1/2	3/4	3/4	1
Supply Pressure		0-16bar(g) / 230psi(g)							
Adjustment Pressure		0-12bar(g) / 0-175psi(g)							
Working Temperature		5-60° / 41-140°F							
100psi Model Rated Flow NI/min		800	1500	1700	3200	3500	3500	11000	11500
100psi Model Rated Flow CFM		28	53	60	113	124	124	389	406
180psi Model Rated Flow NI/min		1000	1600	1800	3300	4000	4500	12000	12500
180psi Model Rated Flow CFM		35	34	64	117	141	159	424	442
Materials	Filter Head	Aluminum Alloy Painted							
	Bowl Guard	Aluminum Painted							
	Seals	NBR							
	Adjustment Knob	POM (Acetal)							

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- Pipe or Bracket Mounted Point of Use Lubricators
- Mounting Brackets included
- Used in conjunction with LF and LR models
- Twist release bowl removal
- Sight glass indicator for oil level
- Adjustable oil drip feed rate
- Modular thread blocks



LOE	MINI	N14
Series Type	Body Size	Port Size NPT
	MINI	N18 1/8
	MIDI	N14 1/4
	MAXI	N38 3/8
		N12 1/2
		N34 3/4
		N1 1

Body Size	Available Port Sizes
MINI	1/8
MINI	1/4
MINI & MIDI	3/8
MIDI	1/2
MIDI & MAXI	3/4
MAXI	1

SPECIFICATIONS									
Body Size		MINI			MIDI			MAXI	
Port Size NPT		1/8	1/4	3/8	3/8	1/2	3/4	3/4	1
Features of Operation		Sintered Filter with Water Separator							
Supply Pressure		0-16bar(g) / 230psi(g)							
Working Pressure		0-16bar(g) / 0-240psi(g)							
Working Temperature		5-60° / 41-140°F							
Rated Flow NI/min		1300	2300	2700	5500	6100	6300	8400	9000
Rated Flow CFM		46	81	95	194	216	223	297	318
Minimum Flow Rate NI/min		3			6			10	
Minimum Flow Rate CFM		0.1			0.2			0.4	
Materials	Filter Head	Aluminum Alloy Painted							
	Bowl Guard	Aluminum Painted							
	Oil Reservoir	Polycarbonate							
	Seals	NBR							



Features

- Pipe or Bracket Mounted Point of Use Filters
- Mounting Brackets included
- Used in conjunction LOE models
- Twist release bowl removal
- Easy change filter elements
- Sight glass indicator for liquid level
- Semi Automatic (pull for drain) or Fully Automatic Drain
- Modular thread blocks

Body Size	Available Port Sizes
MINI	1/8
MINI	1/4
MINI & MIDI	3/8
MIDI	1/2
MIDI & MAXI	3/4
MAXI	1

LFR

N14

5M

7

A

Series Type

Body Size

Port Size NPT

Filtration Efficiency

Adjustment Range

Drain Type

MINI

MIDI

MAXI

N18	1/8
-----	-----

N14	1/4
-----	-----

N38	3/8
-----	-----

N12	1/2
-----	-----

N34	3/4
-----	-----

N1	1
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	40u
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5M	5μ
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7	100psi
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	180psi
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Semi-Automatic

Auto Drain

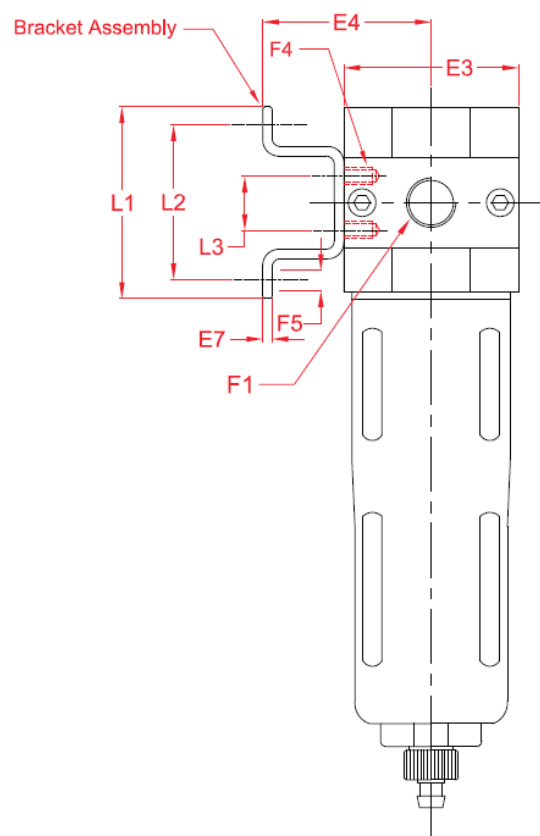
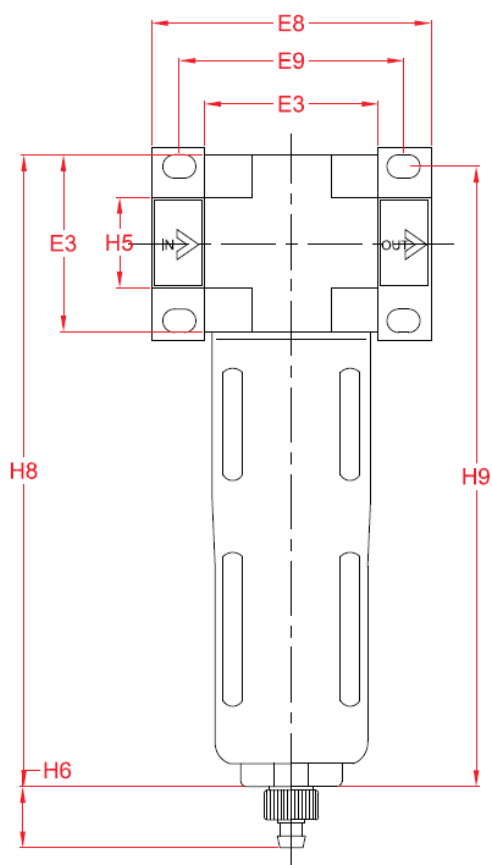
SPECIFICATIONS

Body Size		MINI			MIDI			MAXI	
Port Size NPT		1/8	1/4	3/8	3/8	1/2	3/4	3/4	1
Filtration Efficiency		40μ Polyethylene, 5μ Option							
Supply Pressure		0-16bar(g) / 230psi(g)							
Working Pressure		0-12bar(g) / 0-175psi(g)							
Working Temperature		5-60° / 41-140°F							
100psi 40μ Rated Flow NI/min		900	1500	1700	3400	3900	3900	9500	16000
100psi 40μ Rated Flow CFM		32	53	60	120	138	138	336	565
180psi 40μ Rated Flow NI/min		750	1400	1600	3100	3400	3400	9000	10000
180psi 40μ Rated Flow CFM		27	49	57	110	120	120	318	353
5μ Rated Flow NI/min		650	1200	1350	2400	2500	2500	7300	7600
5μ Rated Flow CFM		23	42	48	85	88	88	258	269
Materials	Filter Head	Aluminum Alloy Painted							
	Bowl Guard	Aluminum Painted							
	Filter Bowl	Polycarbonate							
	Seals	NBR							

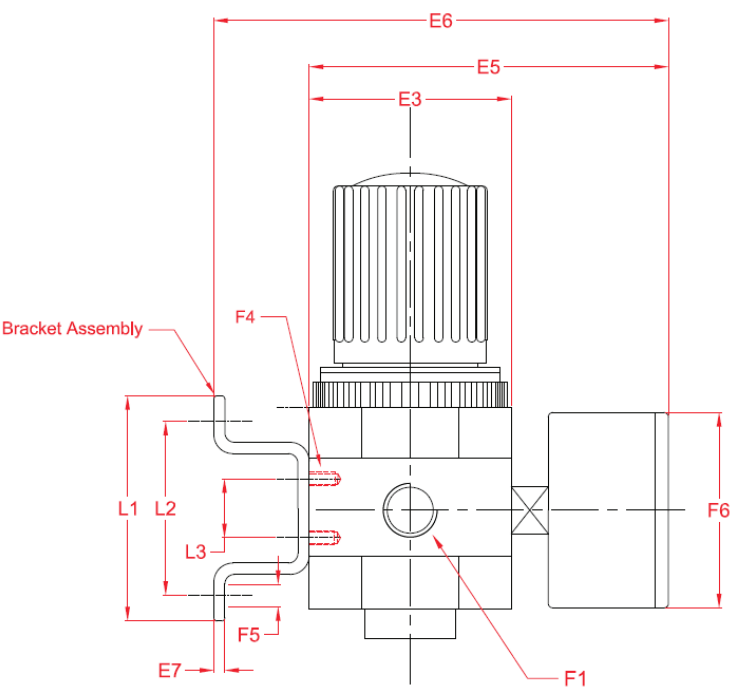
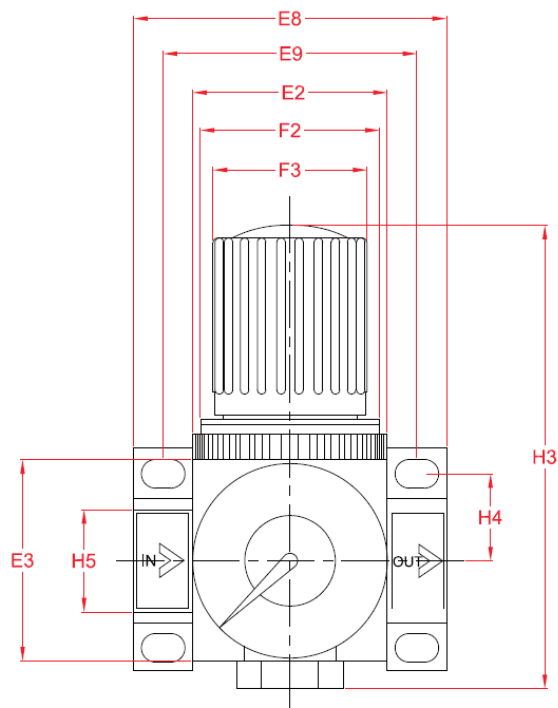
AIR PREPARATION EQUIPMENT

LF FILTER DIMENSIONS

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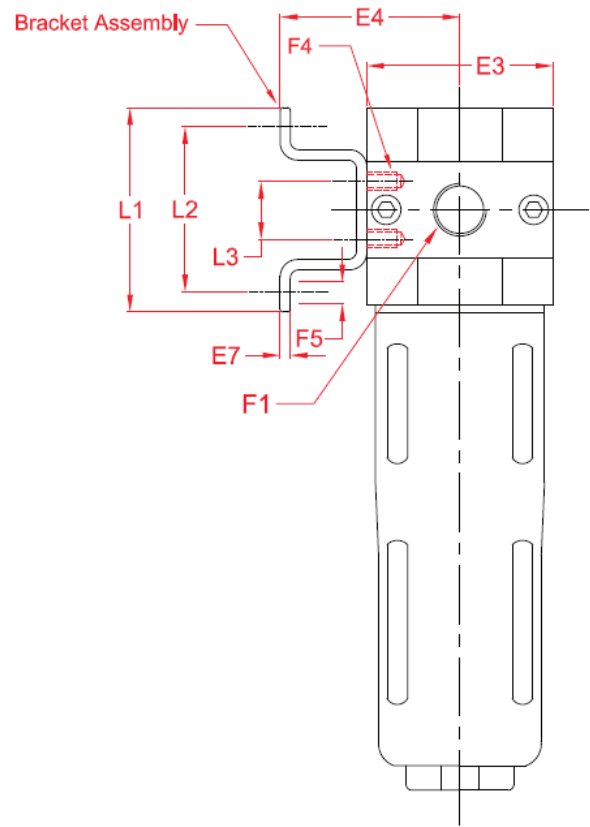
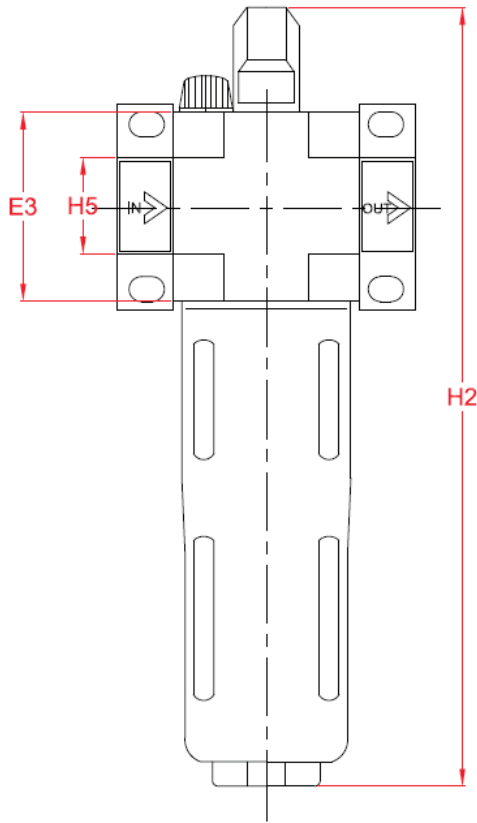


Model	E3	E4	E7	E8	E9	F1	F4	F5 Ø	L1	L2	L3	H4	H5	H6	H8	H9
LF MINI	40	39	2	64	52	1/8, 1/4 & 3/8NPT	M4	4.5	44	35	11	7.5	20	15	144	124
LF MIDI	55	47	3	85	70	3/8, 1/2 & 3/4NPT	M5	5.5	71	60	22	30	32		180	153
LF MAXI	66	53	3	96	80	3/4NPT							40		203	170
LF MAXI				116	91	1NPT										

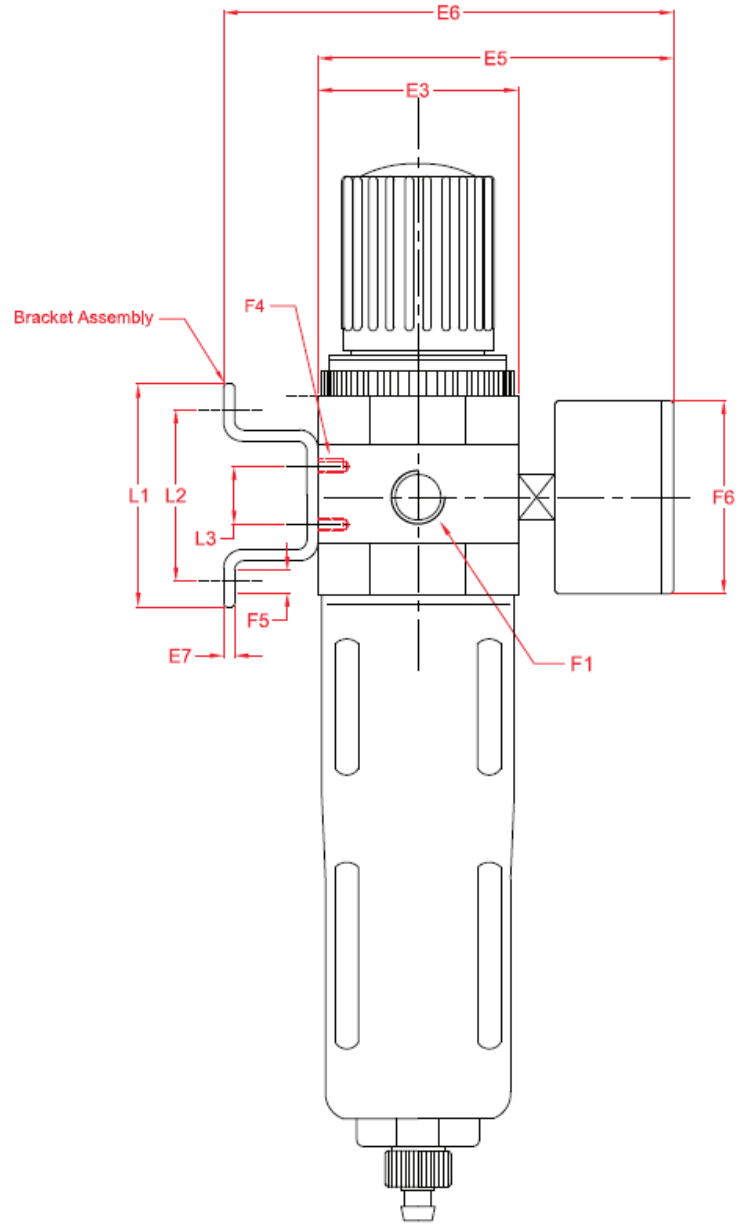
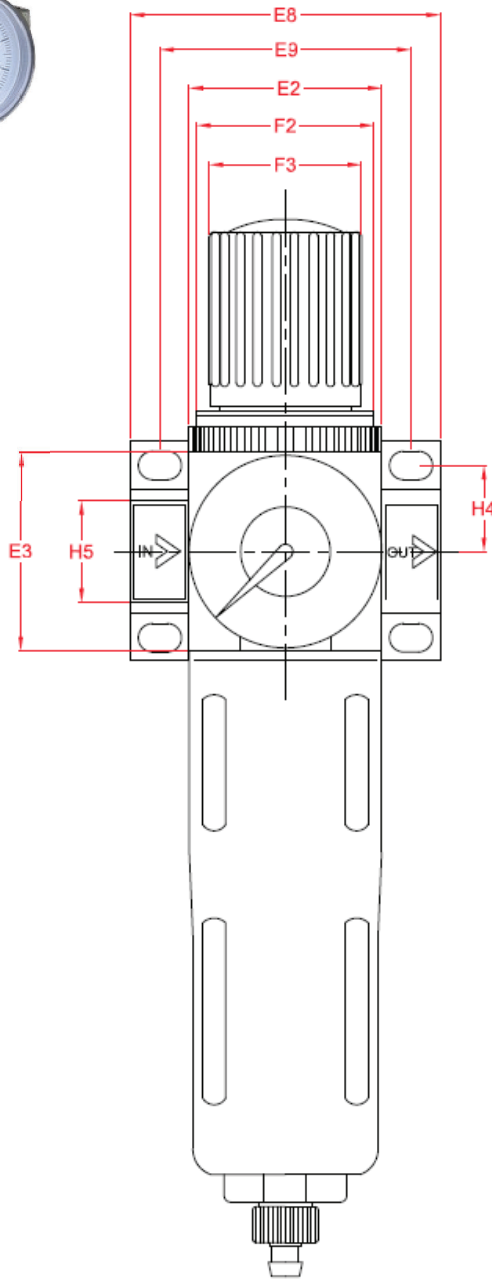


Model	E3	E4	E5	E6	E7	E8	E9	F1	F3	F4	F5Ø	L1	L2	L3	H3	H4	H7
LR MINI	40	39	76	95	2	64	52	1/8, 1/4 & 3/8NPT	31	M4	4.5	44	35	11	20	18	96
LR MIDI	55	47	93	112	3	85	70	3/8, 1/2 & 3/4NPT	50	M5	5.5	73	60	22	98	25	
LR MAXI	66	53						3/4 & 1NPT	31						80		

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Model	E3	E4	E7	F1	F4	F5 Ø	L1	L2	L3	H4	H5
LF MINI	40	39	2	1/8, 1/4 & 3/8NPT	M4	4.5	44	35	11	7.5	20
LF MIDI	55	47	3	3/8, 1/2 & 3/4NPT	M5	5.5	73	60	22	30	32
LF MAXI	66	53		3/4 & 1NPT							



Model	E3	E4	E5	E6	E8	E9	F1
LFR MINI	40	39	76	95	64	52	1/8, 1/4 & 3/8NPT
LFR MIDI	55	47	93	112	85	70	3/8, 1/2 & 3/4NPT
LFR MAXI	66	53	104	124	116	91	3/4 & 1NPT

Model	F3 Ø	F4	F5 Ø	F6 Ø	L1	L2	L3	H1	H3	H4	H5	H6
LFR MINI	31	M4	4.5	41	44	35	11	194	69	18	20	15
LFR MIDI	50	M5	5.5	52	73	60	22	250	98	25	32	
LFR MAXI				53				272	80			

AIR PREPARATION EQUIPMENT ACCESSORIES

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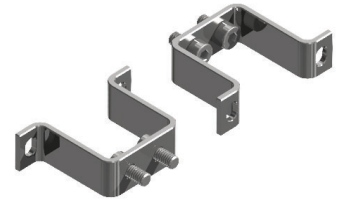
Spare Regulator Brackets

OHO-MINI
OHO-MIDI
OHO-MAXI



Spare Wall Brackets

OHC-MINI
OHC-MIDI
OHC-MAXI



Spare Regulator Bulkhead Nuts

HMR-MINI
HMR-MIDI
HMR-MAXI



Spare Thread Blocks

Model Number	Thread Size
OHB-MINI-18	1/8NPT
OHB-MINI-14	1/4NPT
OHB-MINI-38	3/8NPT
OHB-MIDI-38	3/8NPT
OHB-MIDI-12	1/2NPT
OHB-MIDI-34	3/4NPT
OHB-MAXI-34	3/4NPT
OHB-MAXI-1	1NPT



Each kit comprises of two thread blocks and mounting bolts as shown.

Spare Filter Elements

Model Number	Micron Rating
LFE40 MINI	40
LFE40 MIDI	
LFE40 MAXI	
LFE5 MINI	5
LFE5 MIDI	
LFE5 MAXI	



Assembly Kits

KIT-MINI
KIT-MIDI
KIT-MAXI



The XO series of FRLs can be joined together to make an F+R+L or an FR+L with the use of the joining kits as shown above.



Spare Filter Bowls

Manual Drain	Auto Drain
LF-MINI-MD	LF-MINI-AD
LF-MIDI-MD	LF-MIDI-AD
LF-MAXI-MD	LF-MAXI-AD



Bowl kit supplied with autodrain or manual drain kit installed.

Suitable for LF series Filter and LFR series Filter Regulator